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AL R E SHANNON ET AL. 30 SEP 80 HNDTR-80-45-SP-VOL-2
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VOLUME II

POTENTIAL STORAGE SITES **CONCEPT DESIGN**



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BY THE REVIEW AND SUMMATION TEAM, IS DESCRIBED IN APPENDIX C. SITE SCORES AND RANKING UNDER EACH OF THE THREE STORAGE MEDIA ARE SHOWN IN APPENDIX D.

VOLUME II PROVIDES CONCEPTUAL DESIGN DRAWINGS, CONSTRUCTION COST ESTIMATES, AND A LIFE CYCLE COST ECONOMIC ANALYSIS CONDUCTED TO IDENTIFY, AND QUANTIFY, UNIQUE ECONOMIC ADVANTAGES THAT MAY BE ATTRIBUTABLE TO THE CANDIDATE SITES.

VOLUME III PROVIDES THREE RELATED ENGINEERING STUDIES: (1) DEVELOPMENT OF CONDUCTIVE AND CONVECTIVE HEAT TRANSFER CONCEPTS FOR NO. 6 RESIDUAL OIL. (2) FEASIBILITY OF HEATING RESIDUAL OIL STORAGE FACILITIES WITH SOLAR ENERGY. (3) AN ANALYSIS ON LEASE VS PURCHASE OF STORAGE FACILITIES.

EAST COAST

REGIONAL PETROLEUM RESERVE (RPR)

VOLUME II

POTENTIAL STORAGE SITES CONCEPT DESIGN

Prepared by

US Army Corps of Engineer Huntsville Division

HNDTR-80-45-SP

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FOREWORD

Identification and evaluation of potential storage sites for the Regional Petroleum Reserve were completed and submitted to DOE in May 1980 as Volume I of a 3-volume set. In support of Volume I, concept designs, construction cost estimates, and life cycle costs have been prepared and comprise Volume II. Volume III contains three related engineering studies:

- (1) Development of conductive and convective heat transfer concepts for No. 6 residual oil
- (2) Feasibility of heating residual oil storage facilities with solar energy
 - (3) An analysis on lease vs purchase of storage facilities

CHAPTER 1

CONCEPTUAL DESIGN DRAWINGS

FOR

POTENTIAL STORAGE SITES

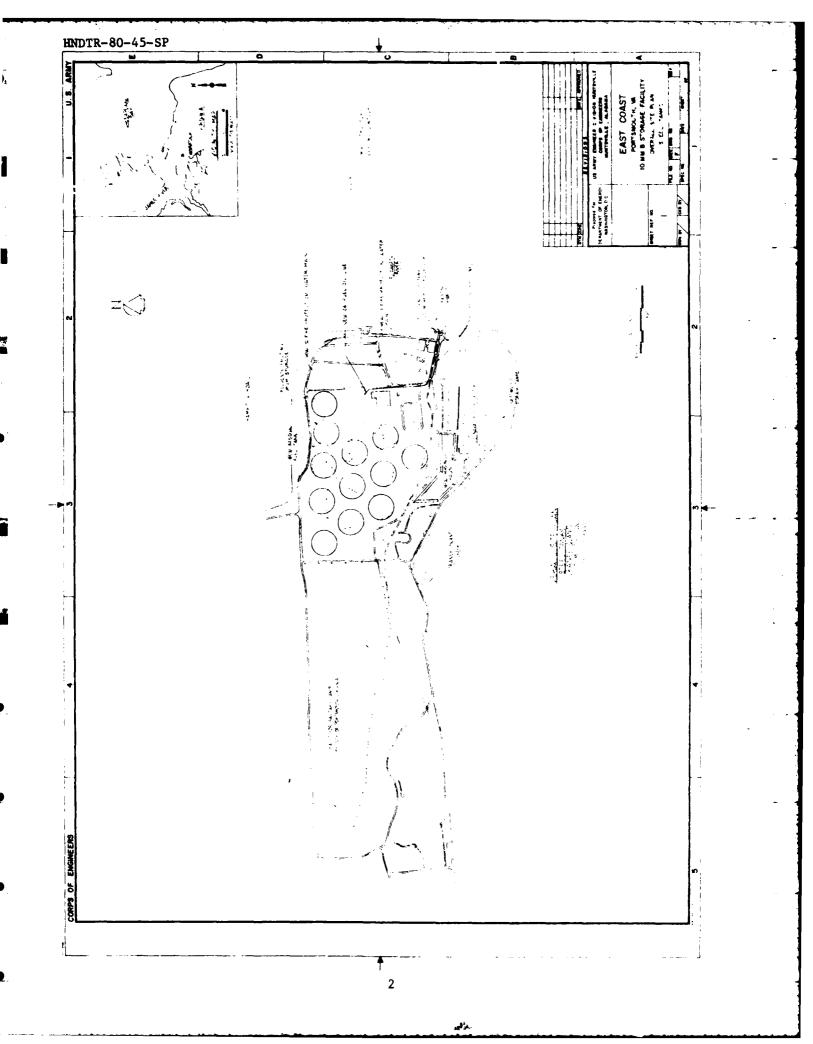
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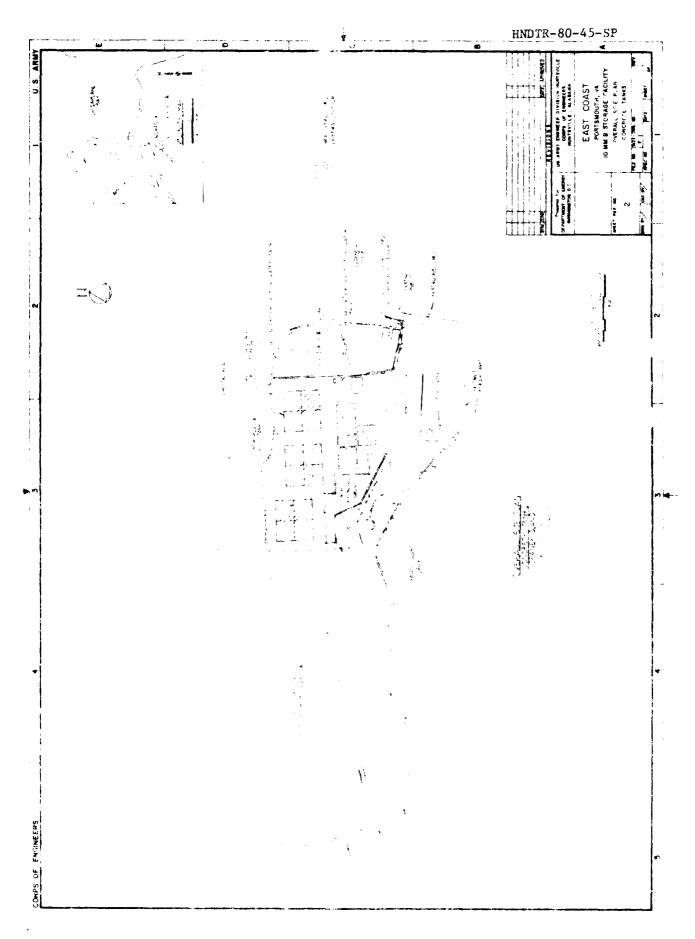


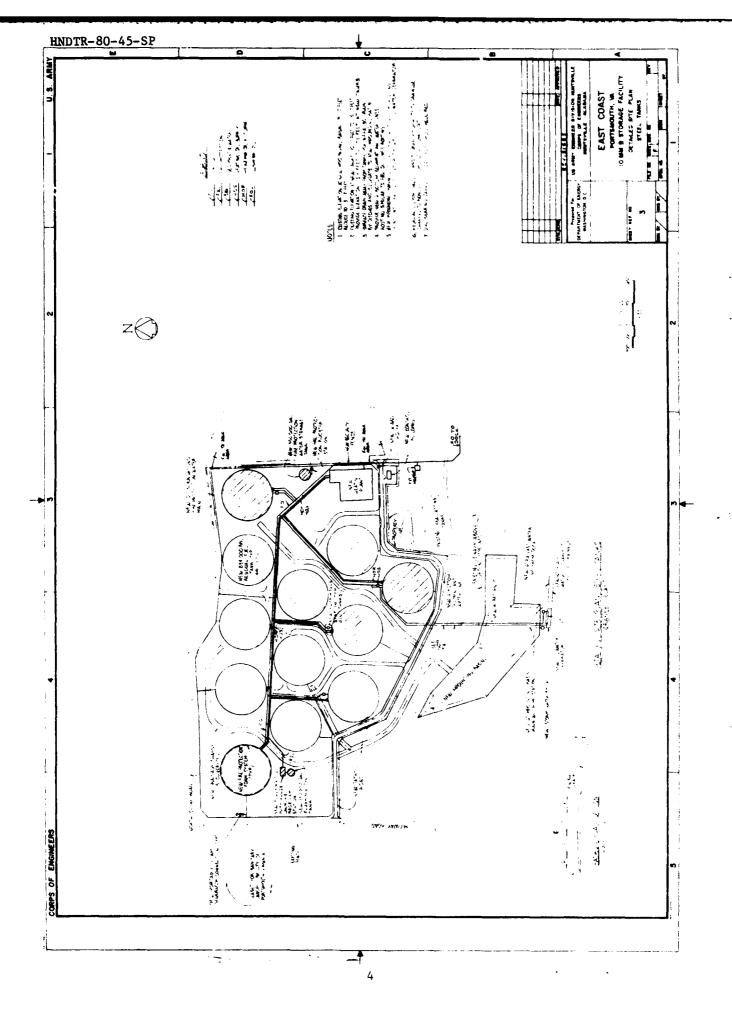
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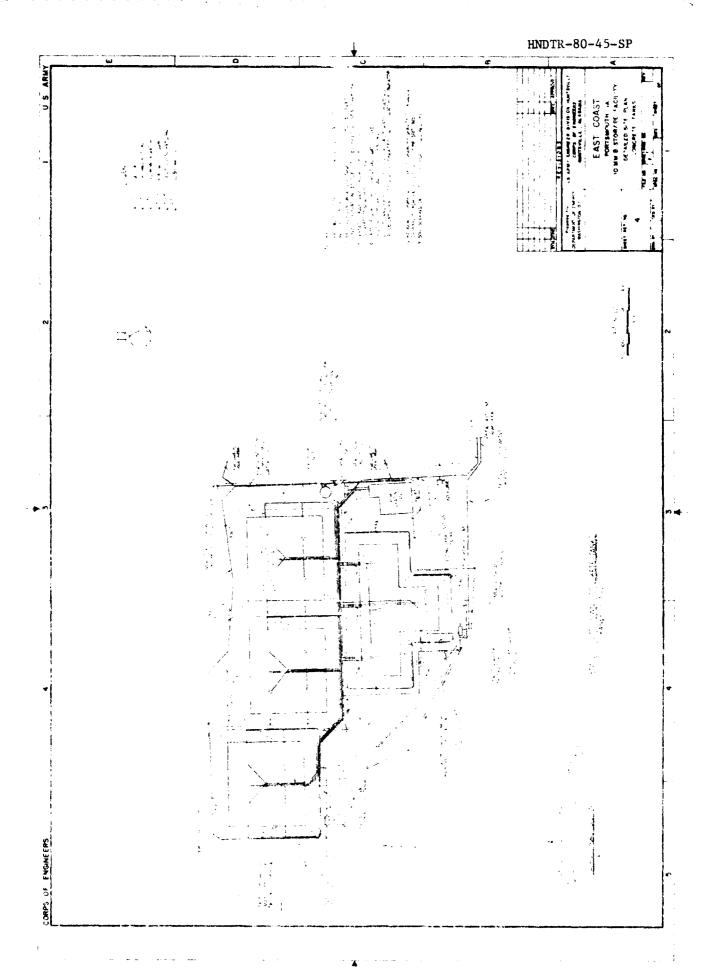
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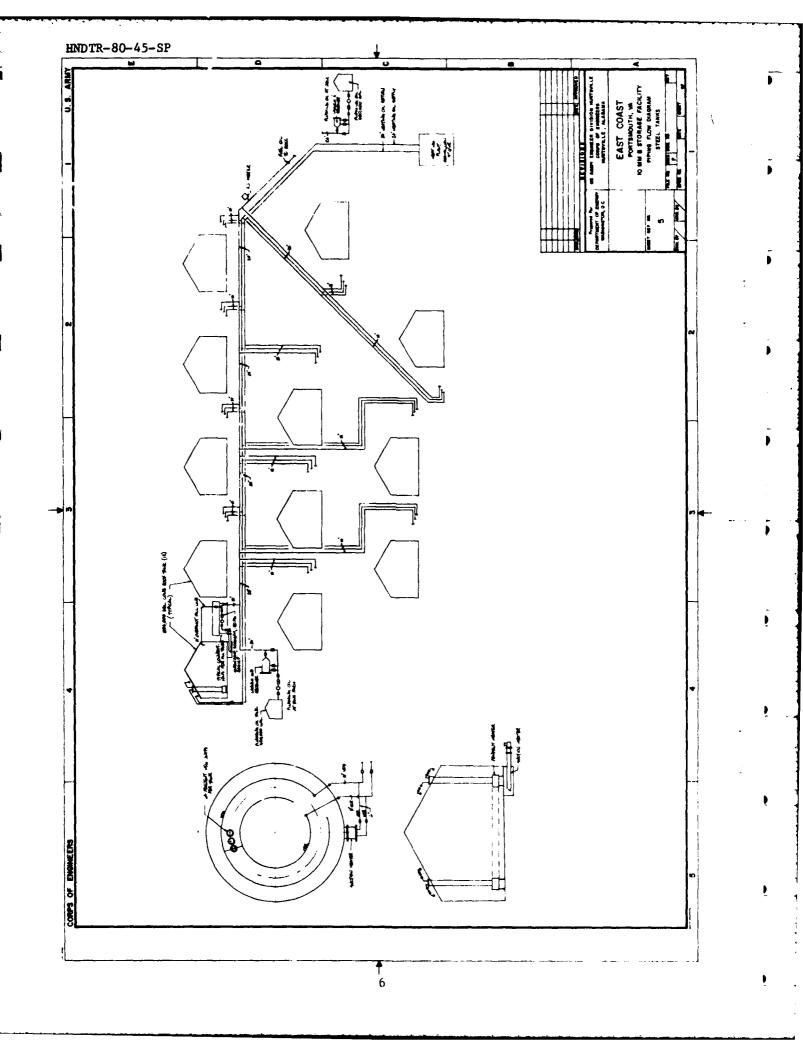
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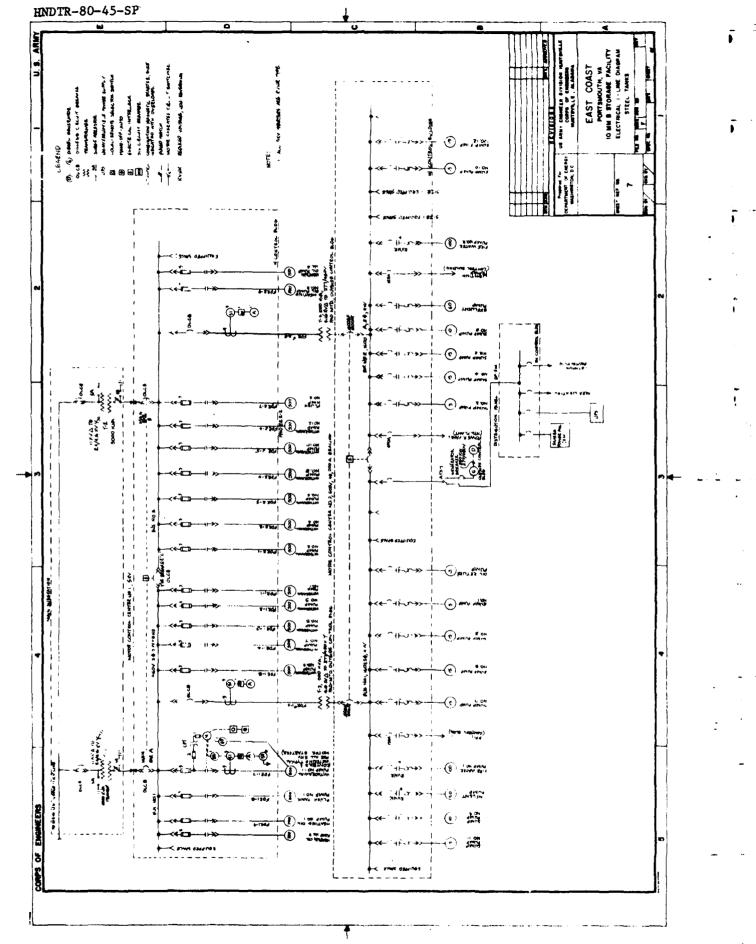




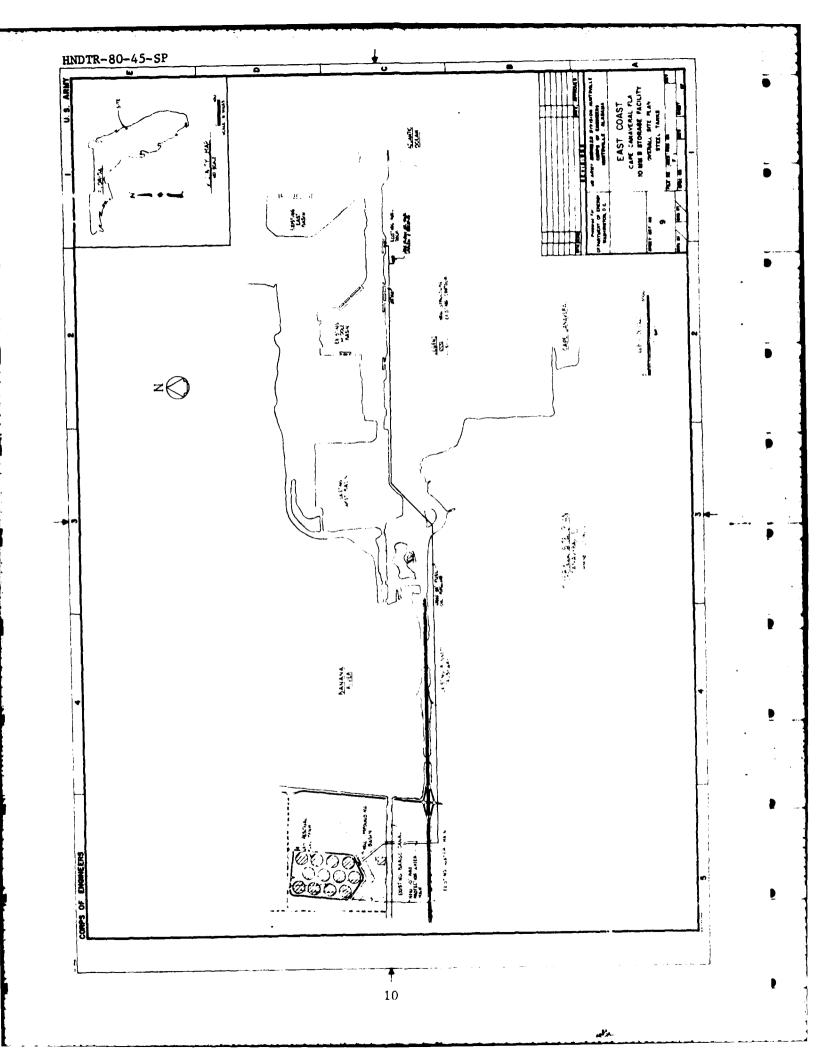


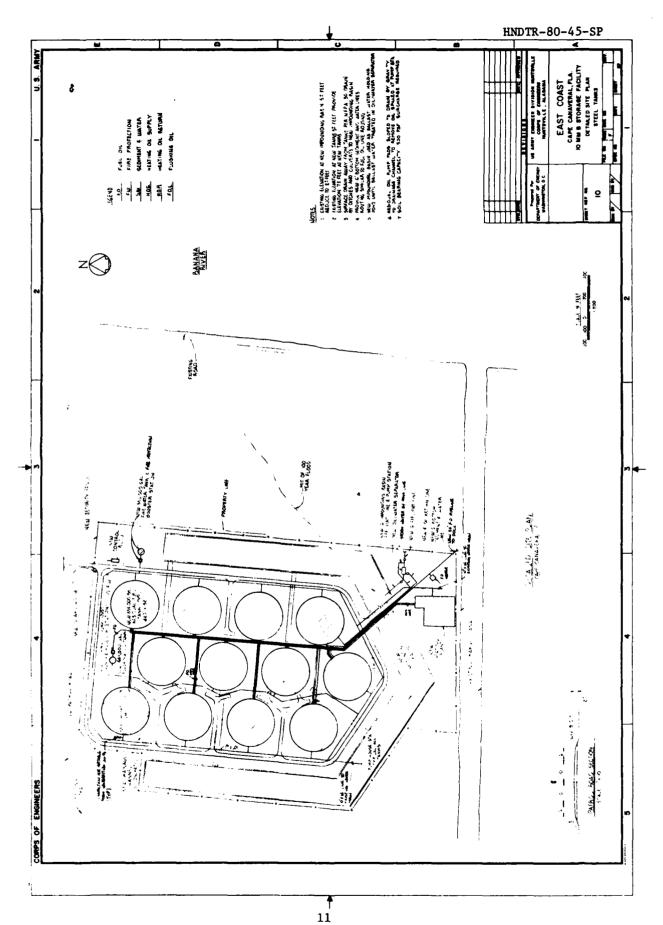
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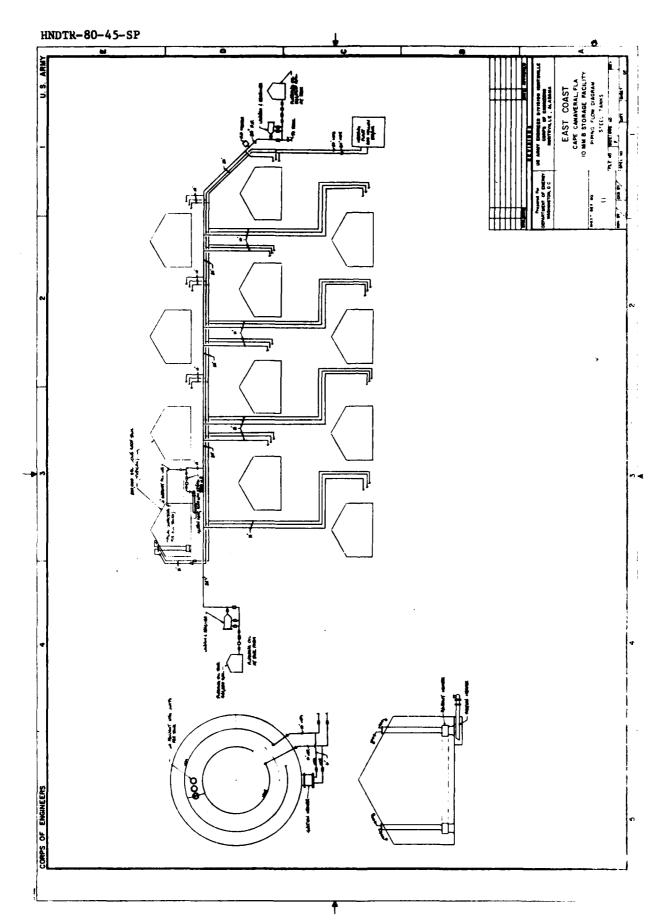
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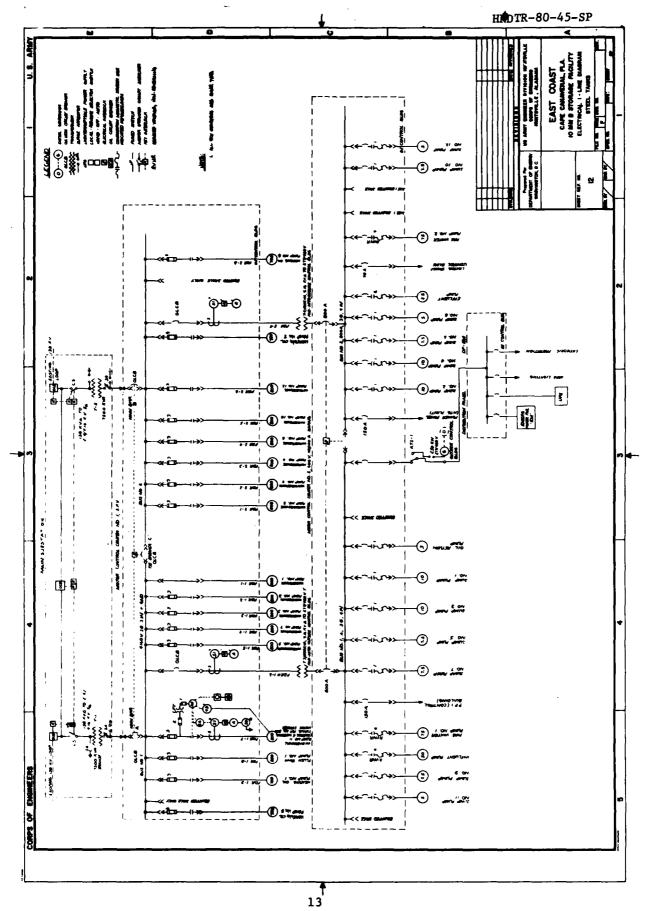


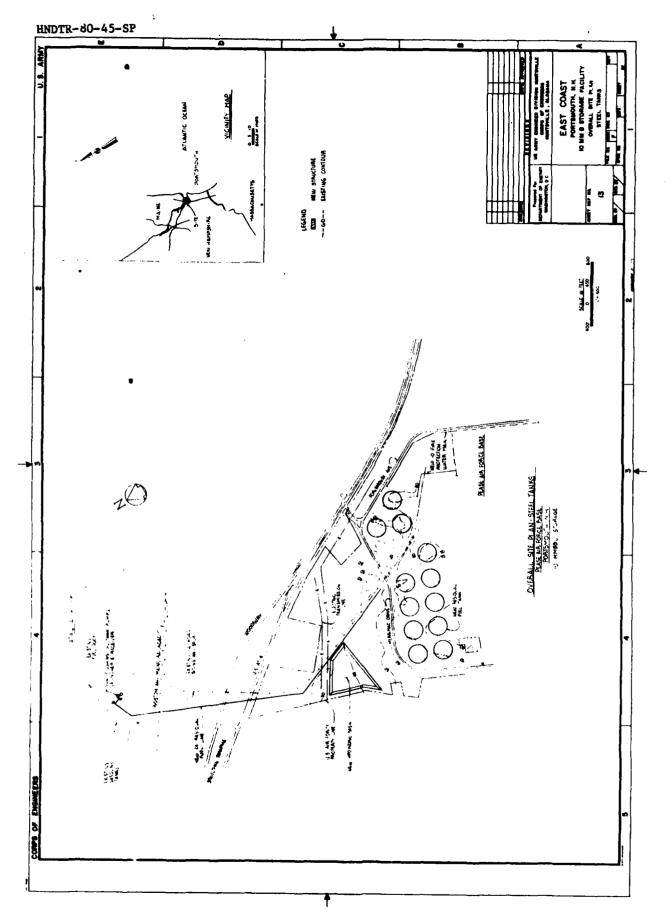
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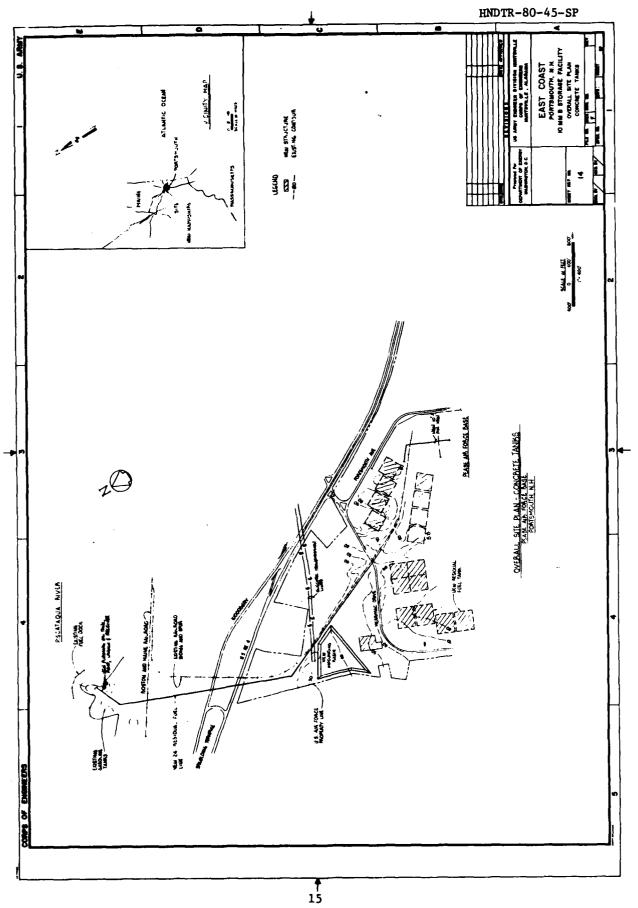


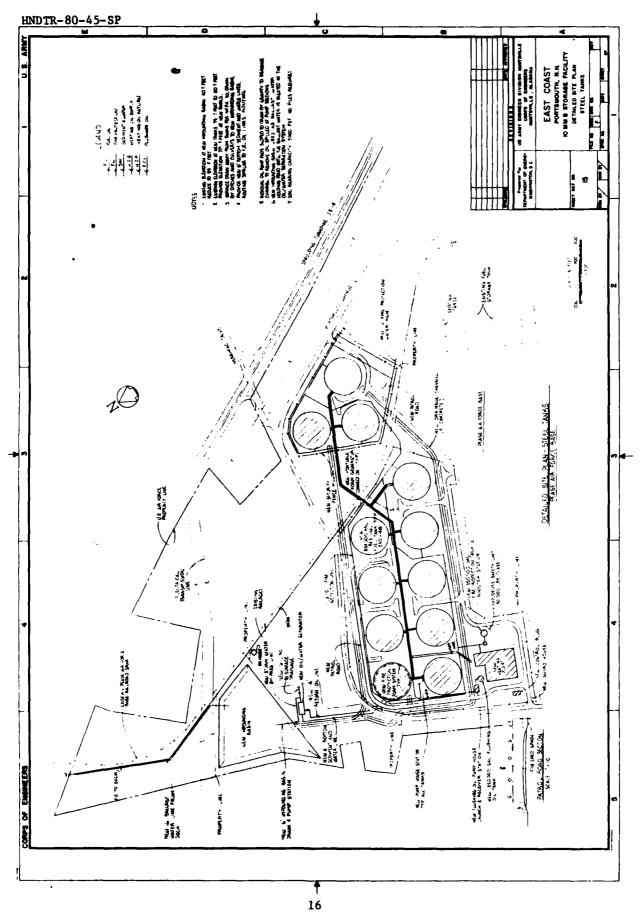


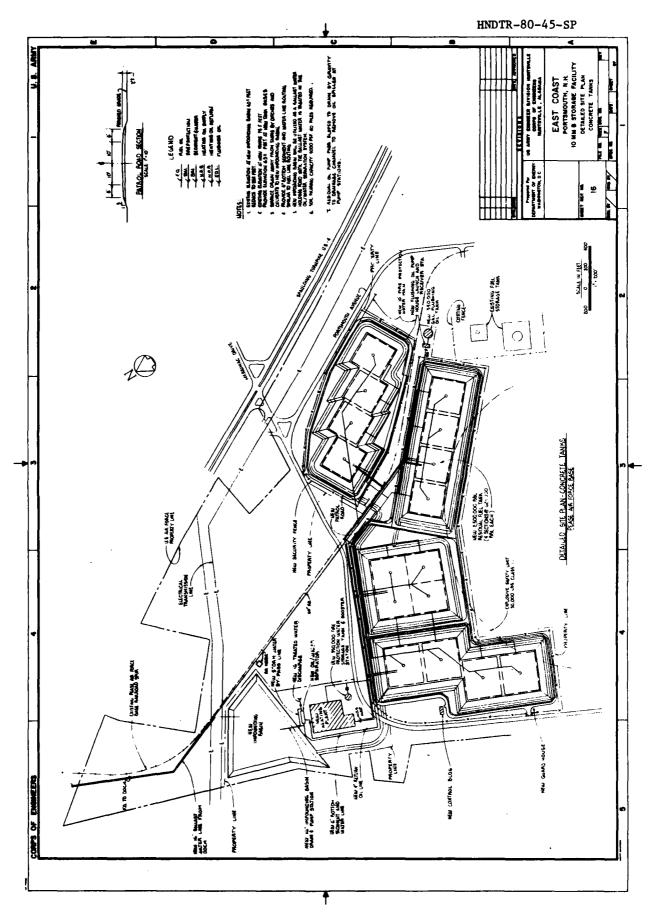


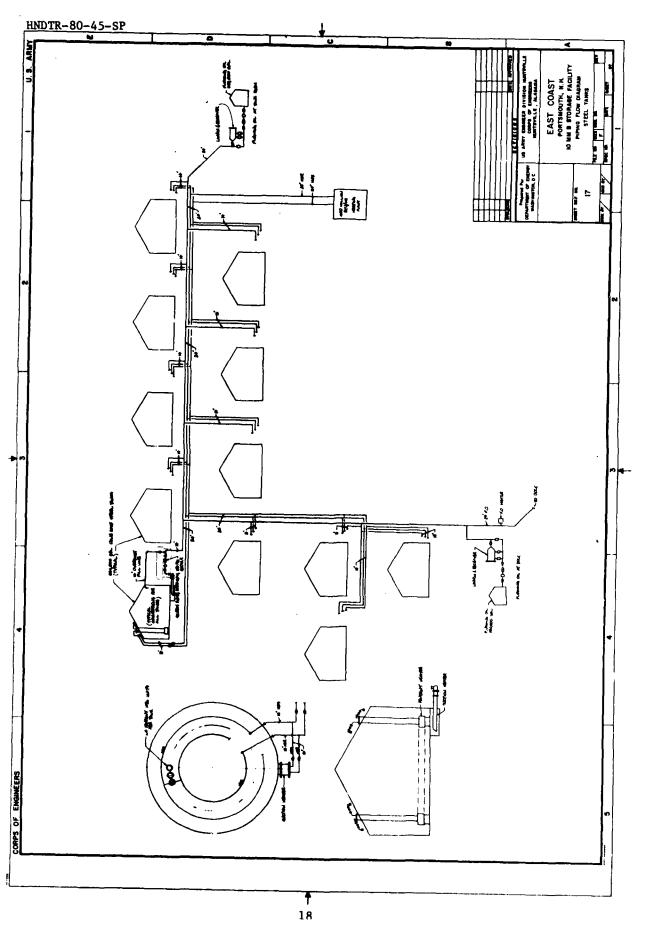


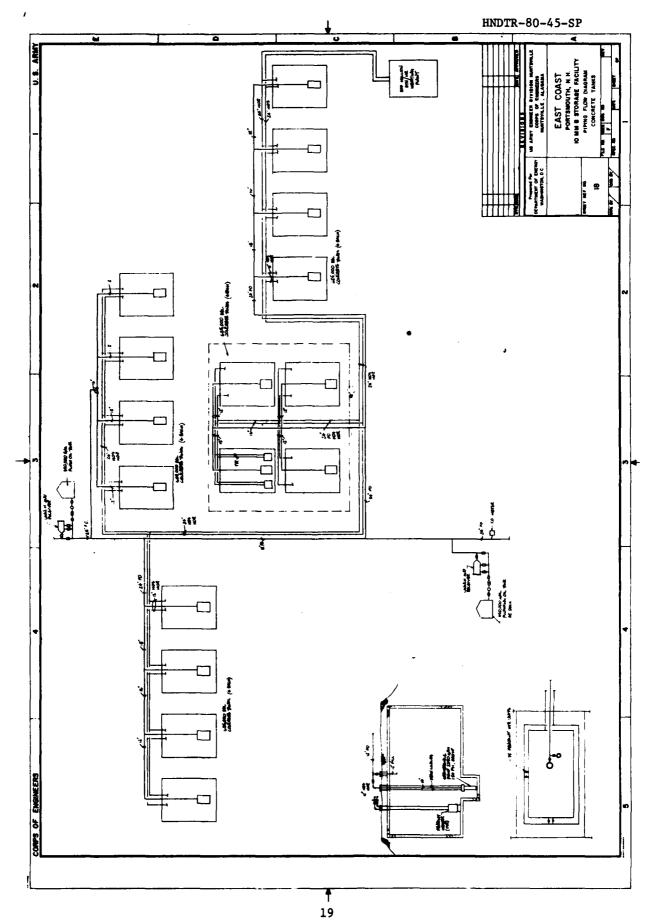


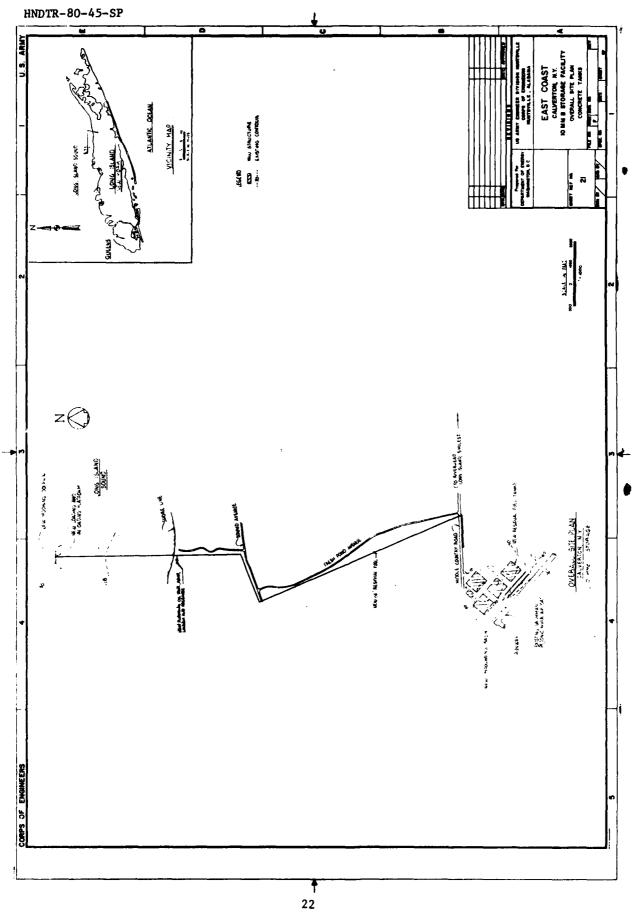


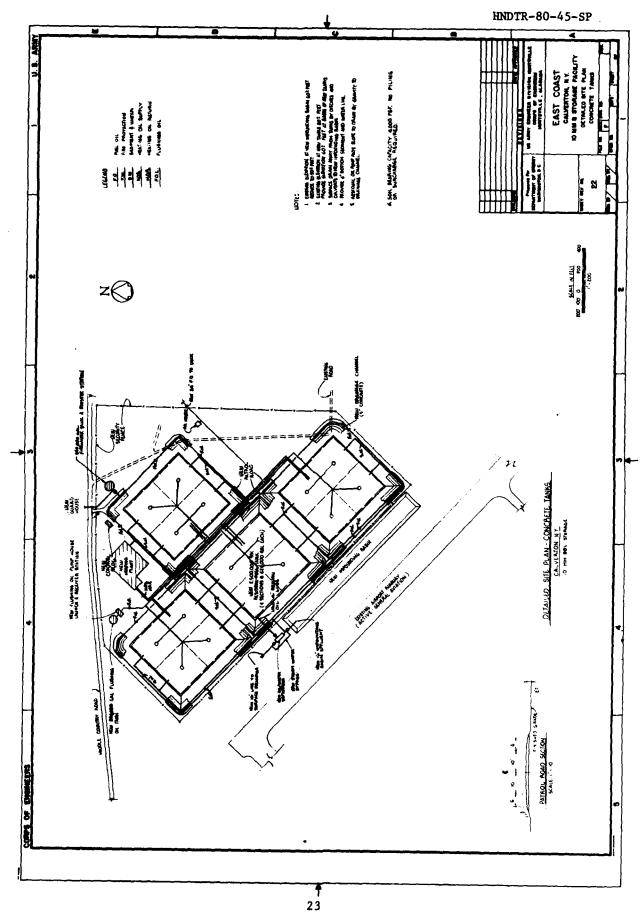


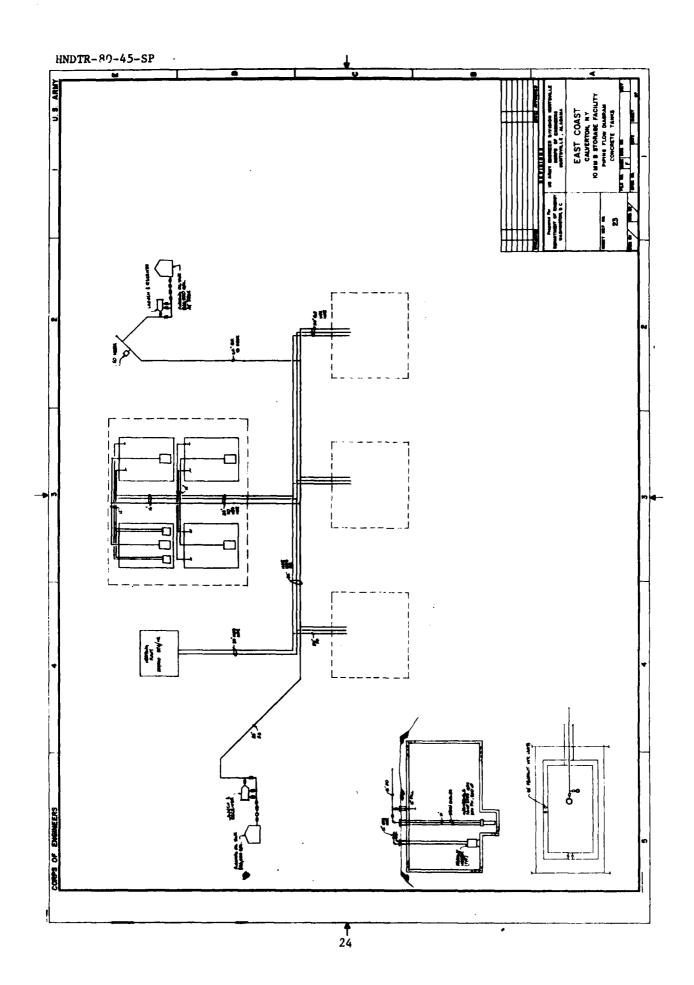


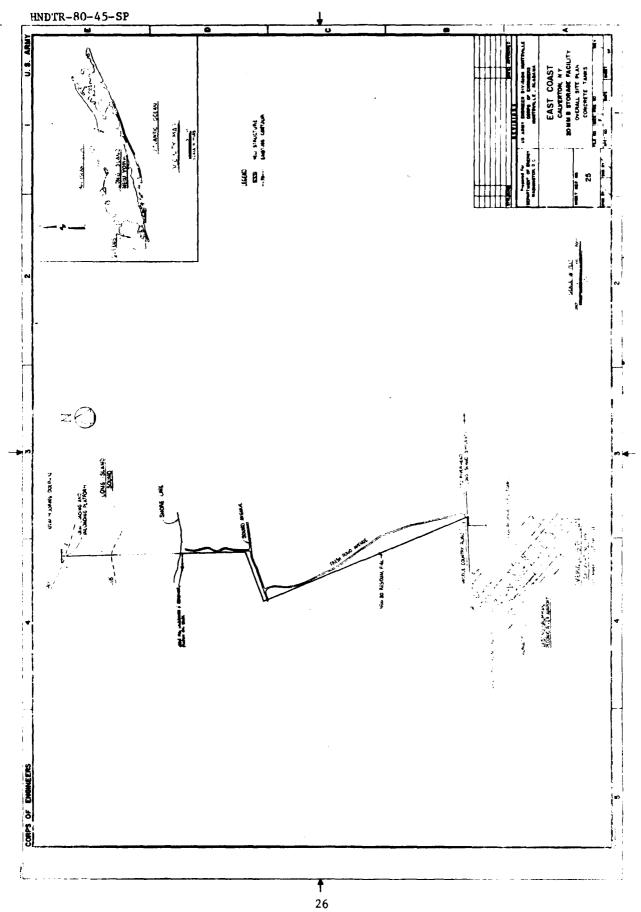


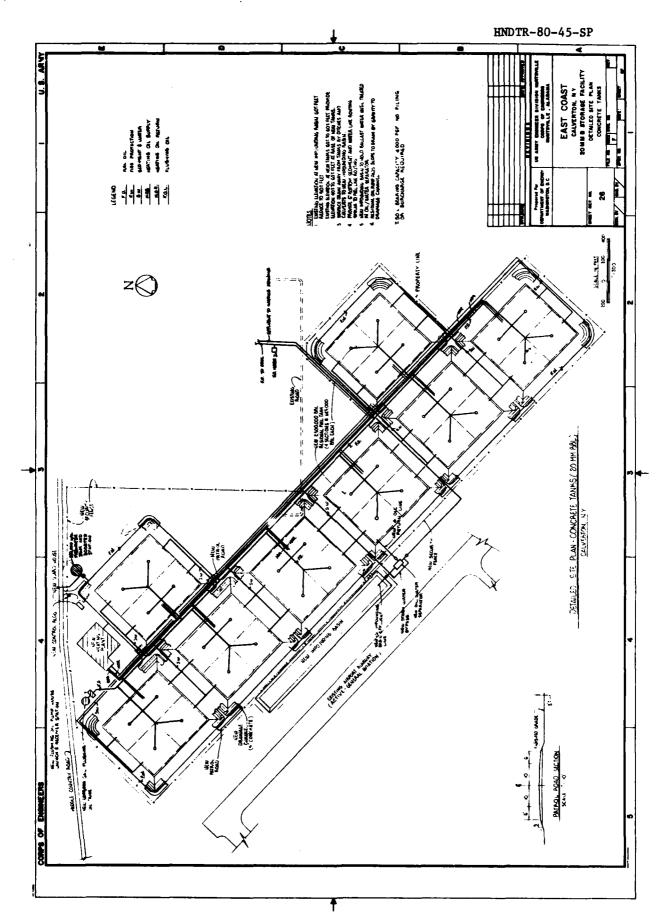


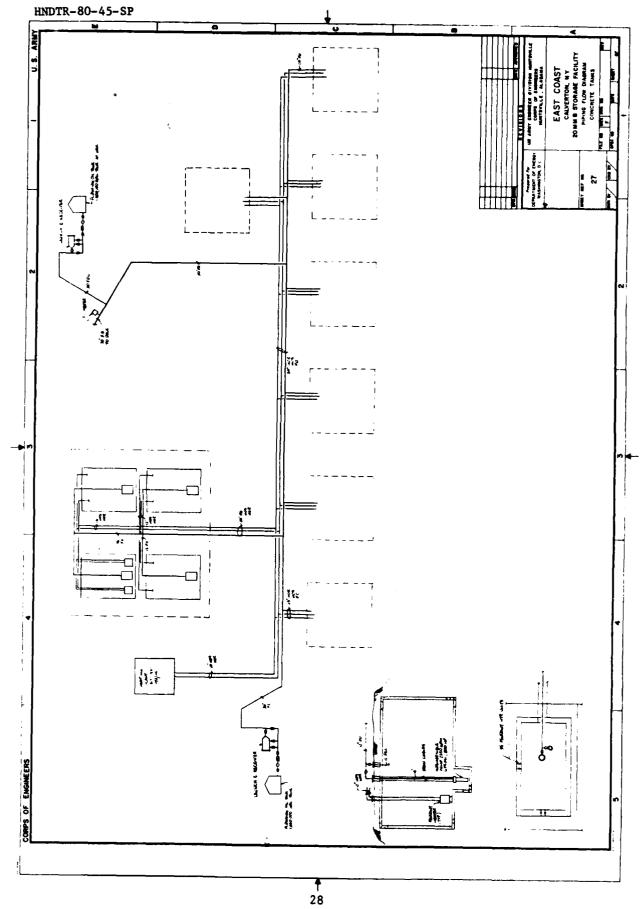




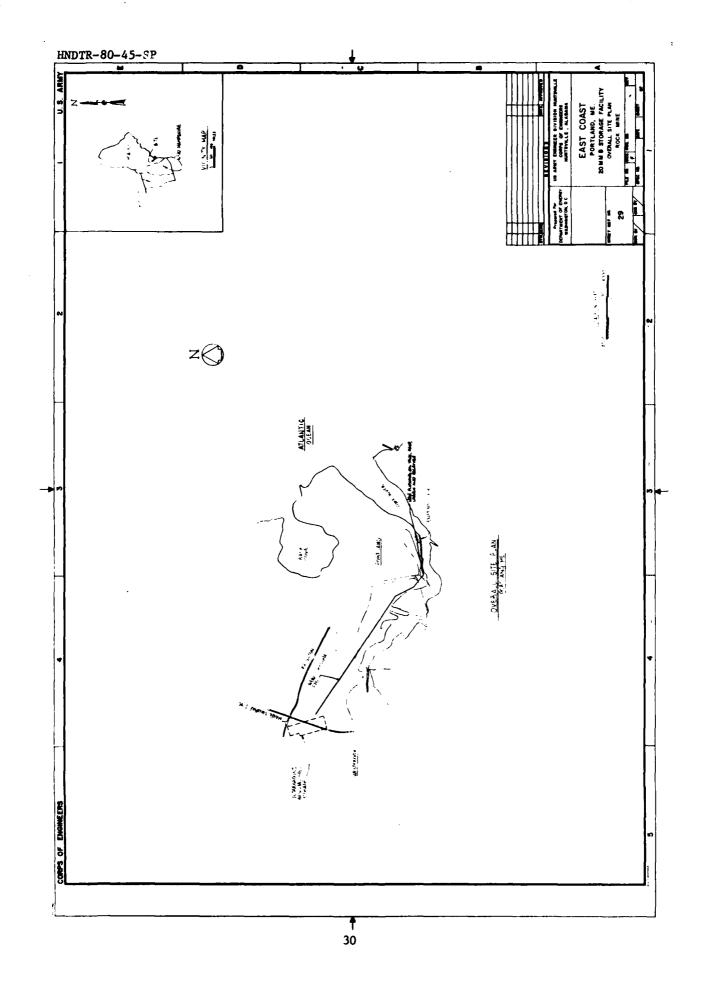


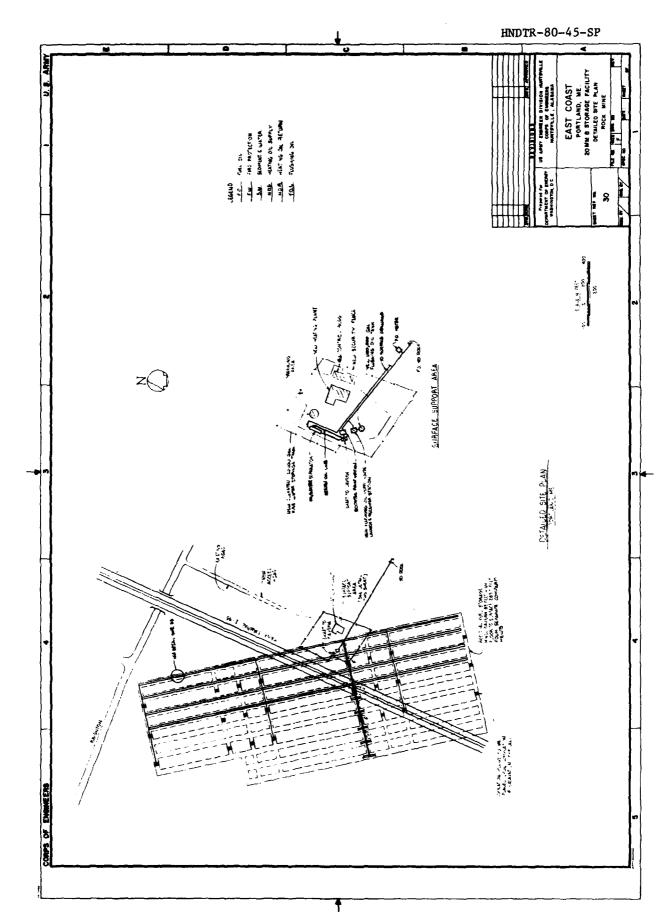


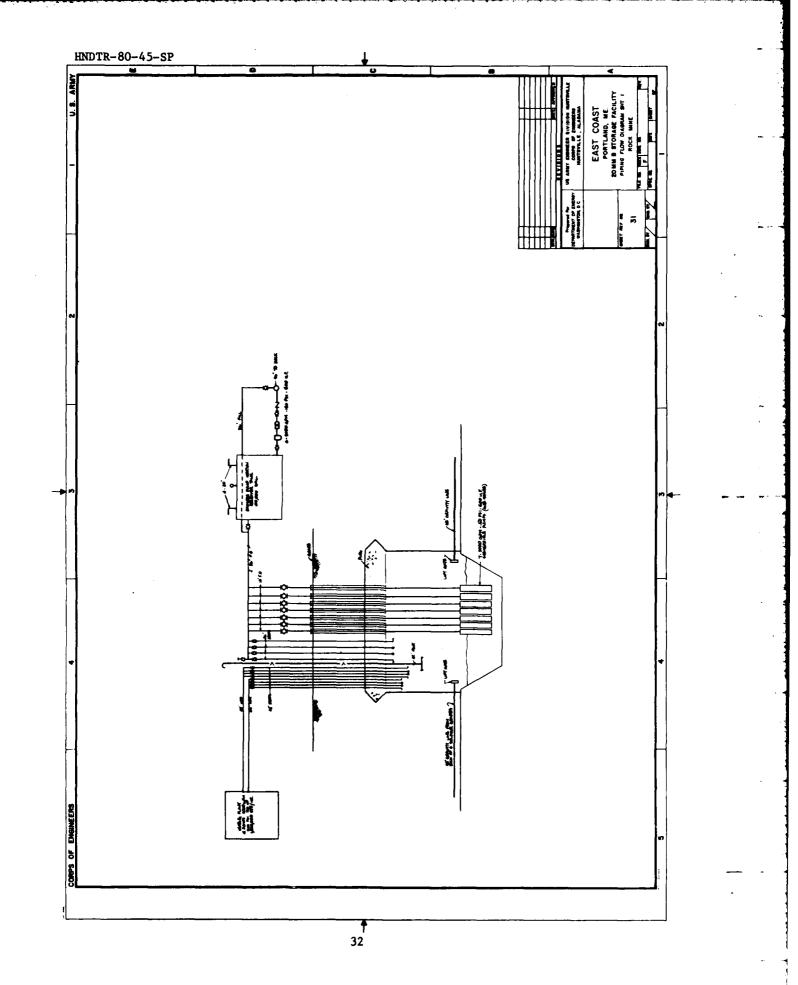


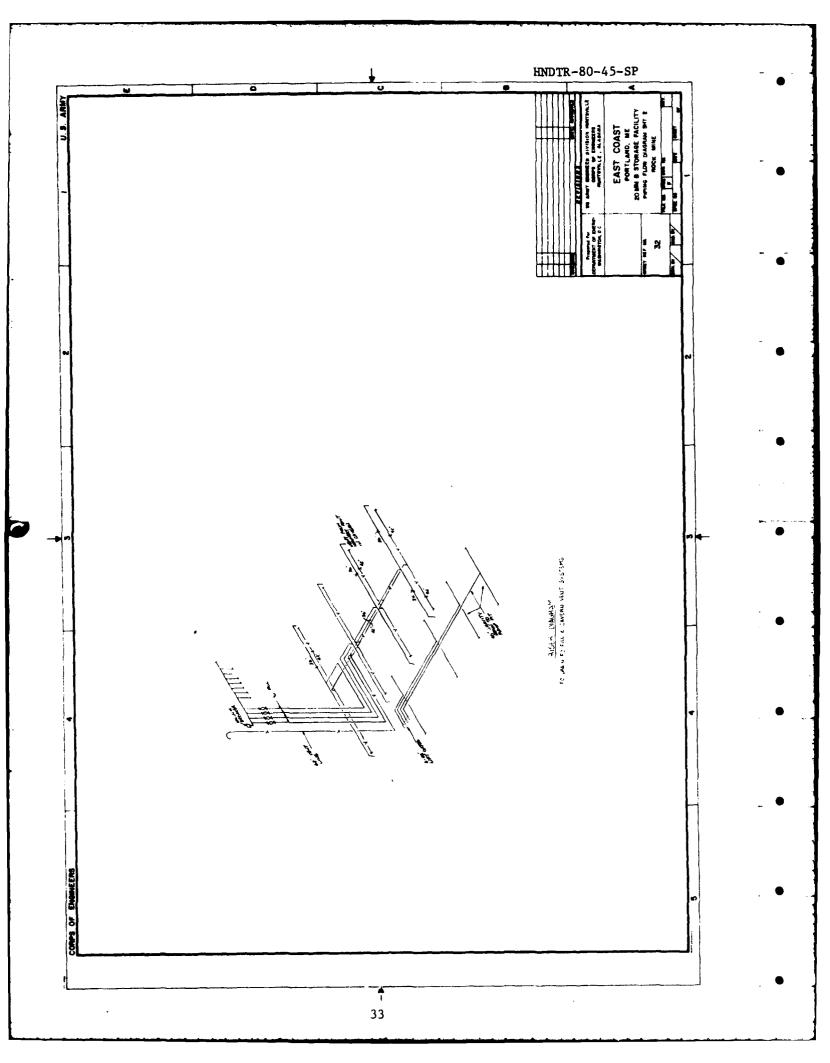


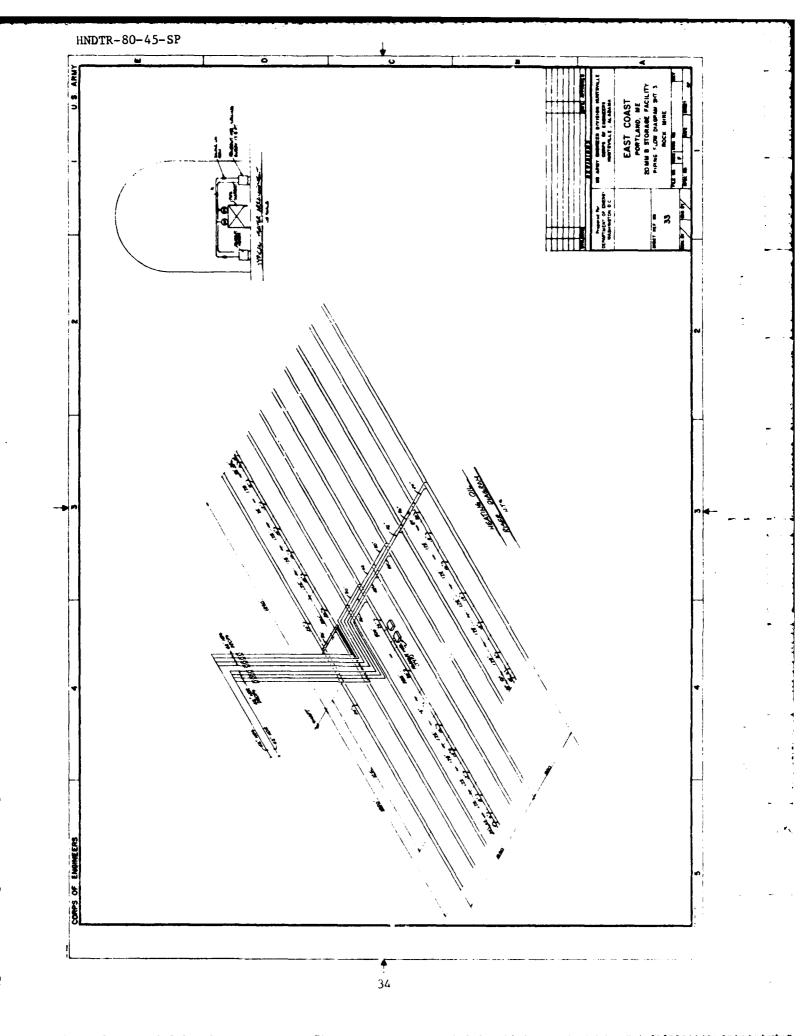
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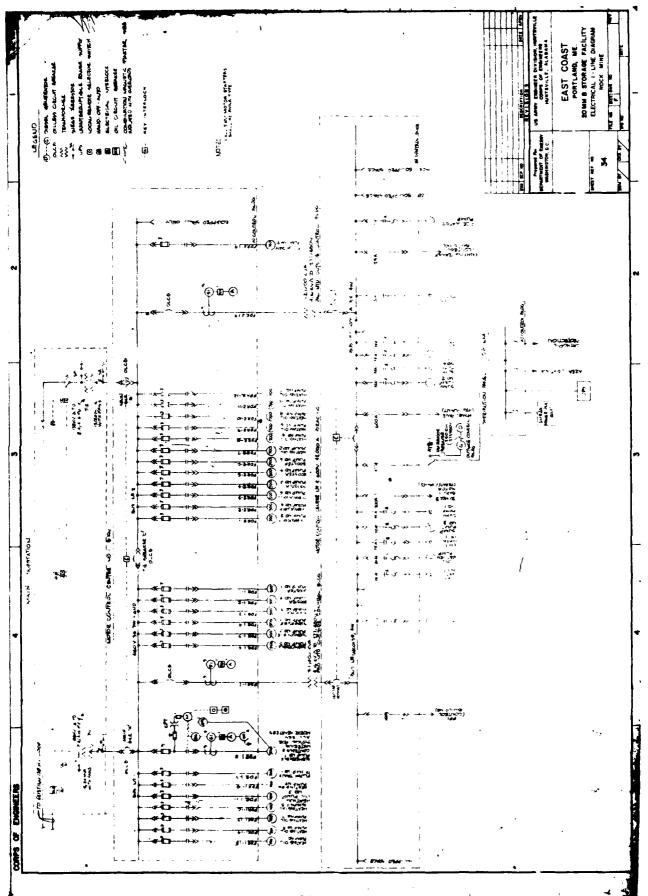


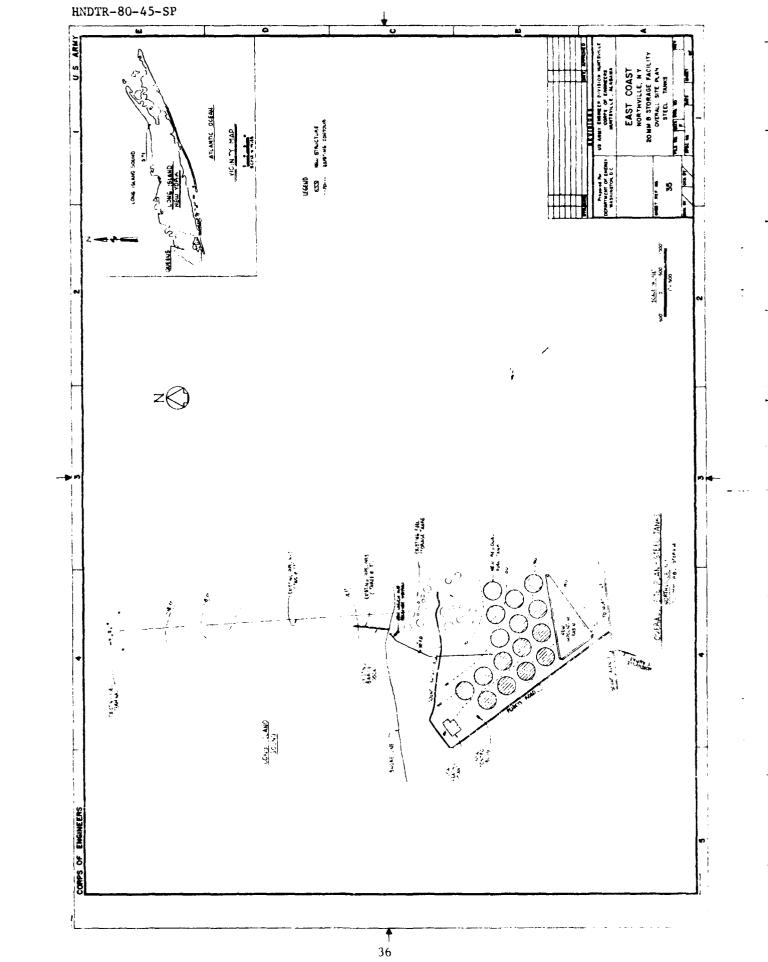


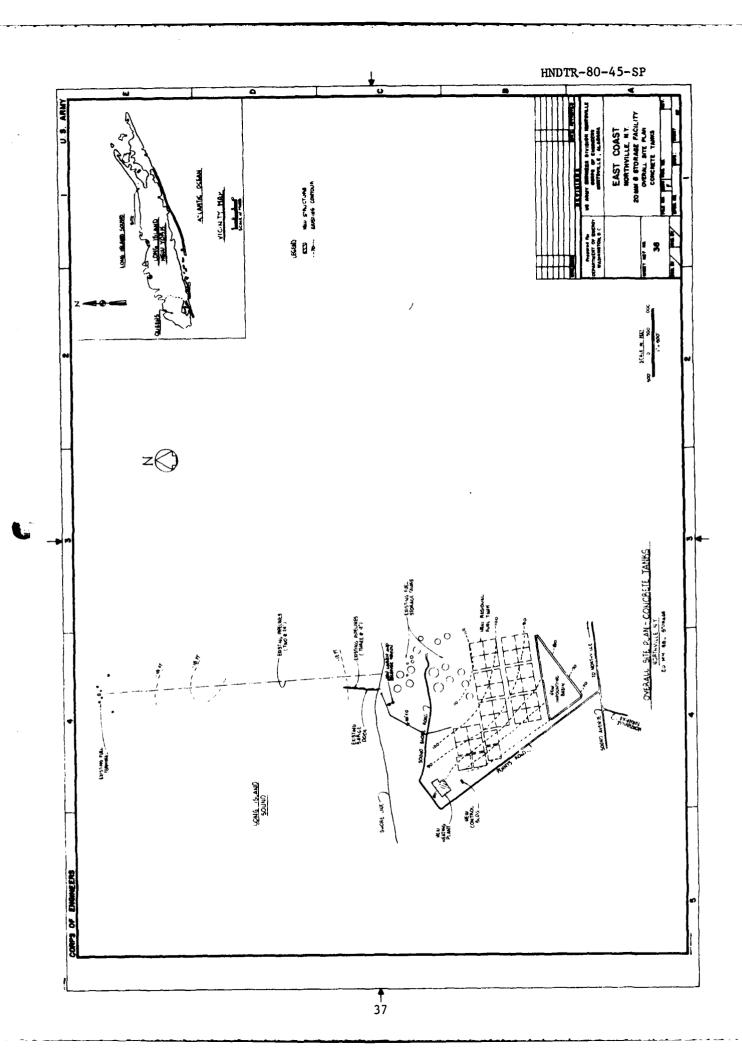


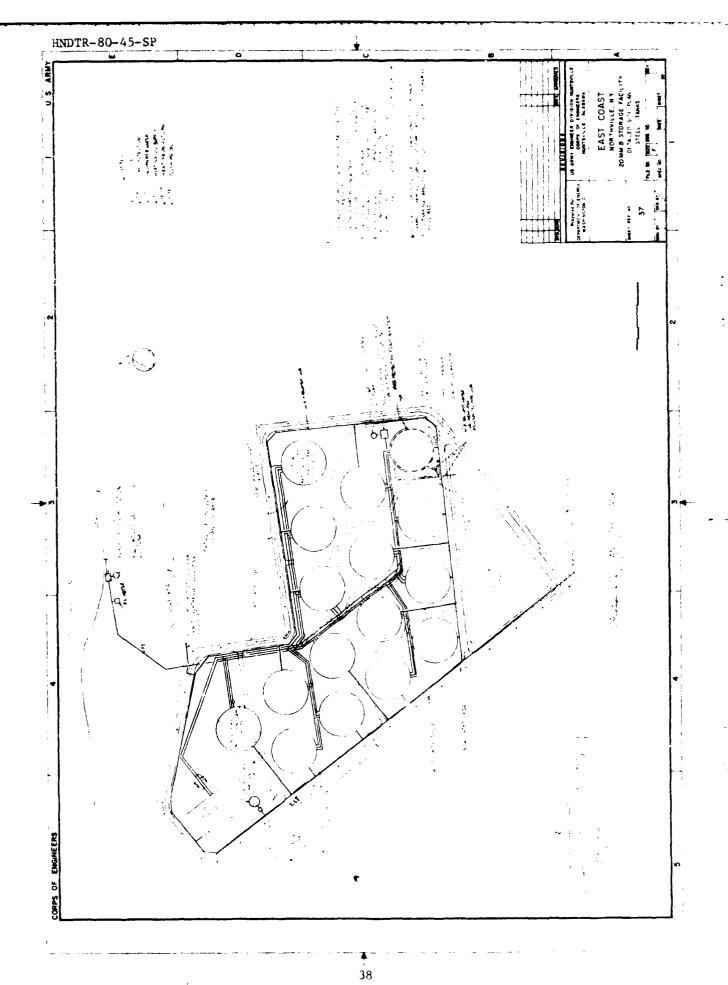


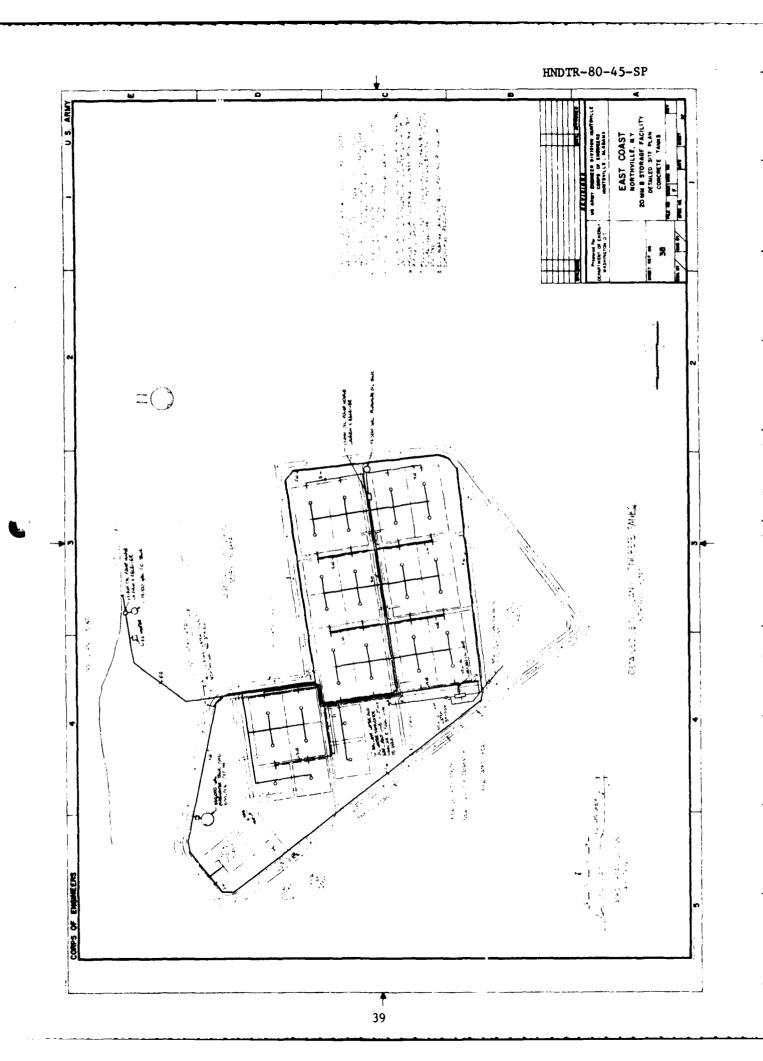


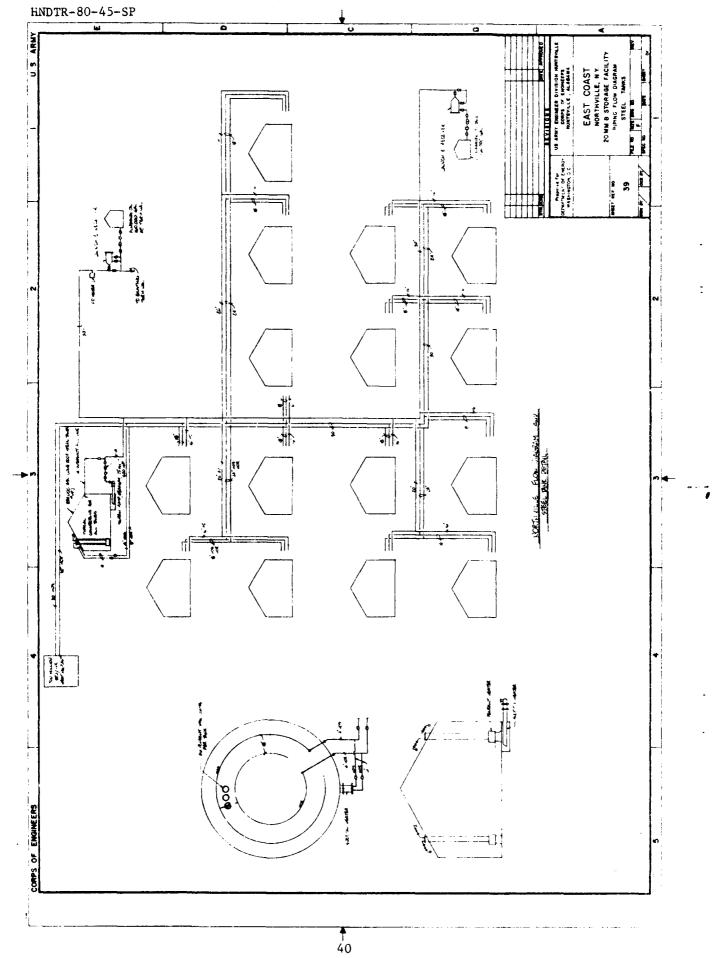


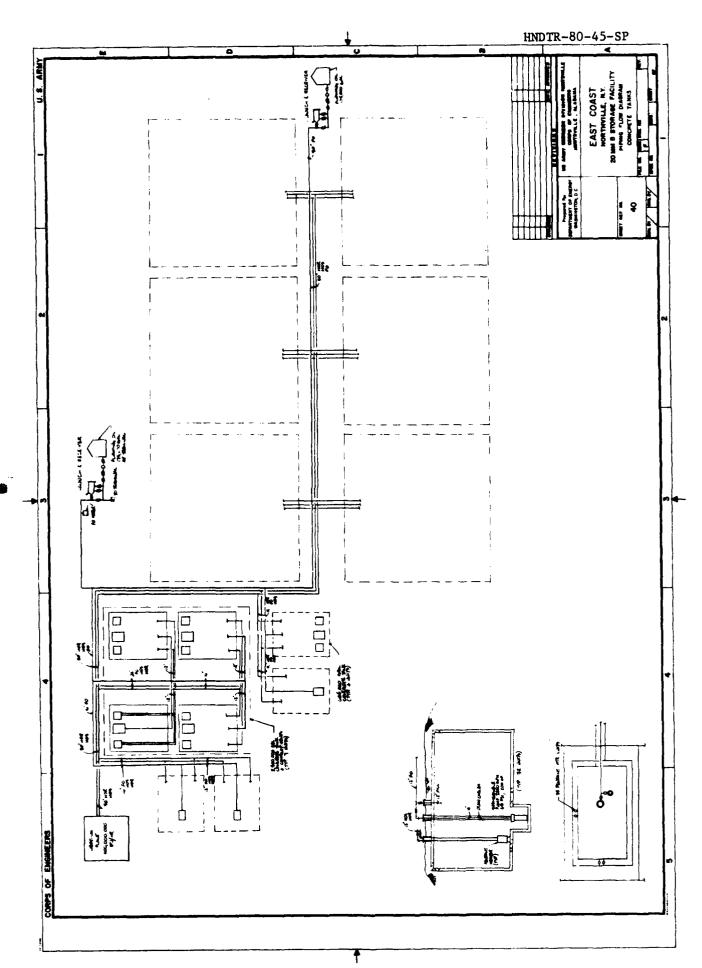


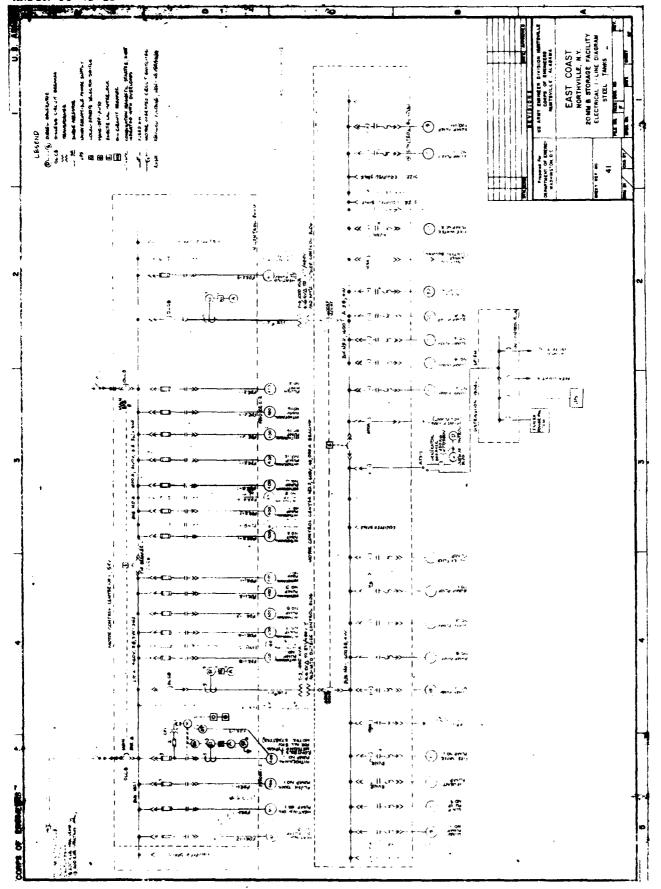


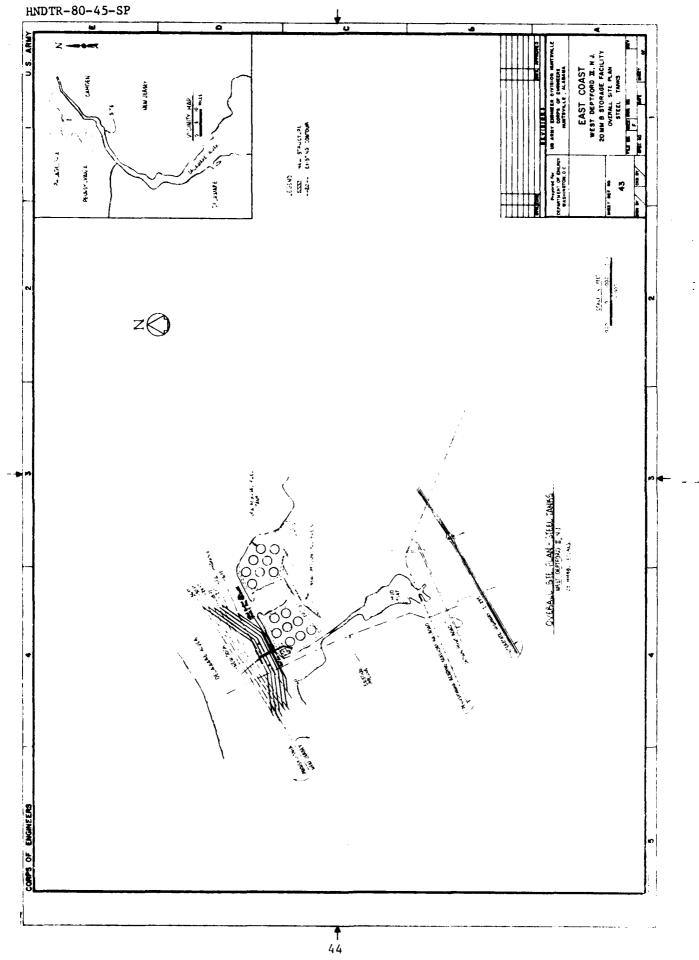


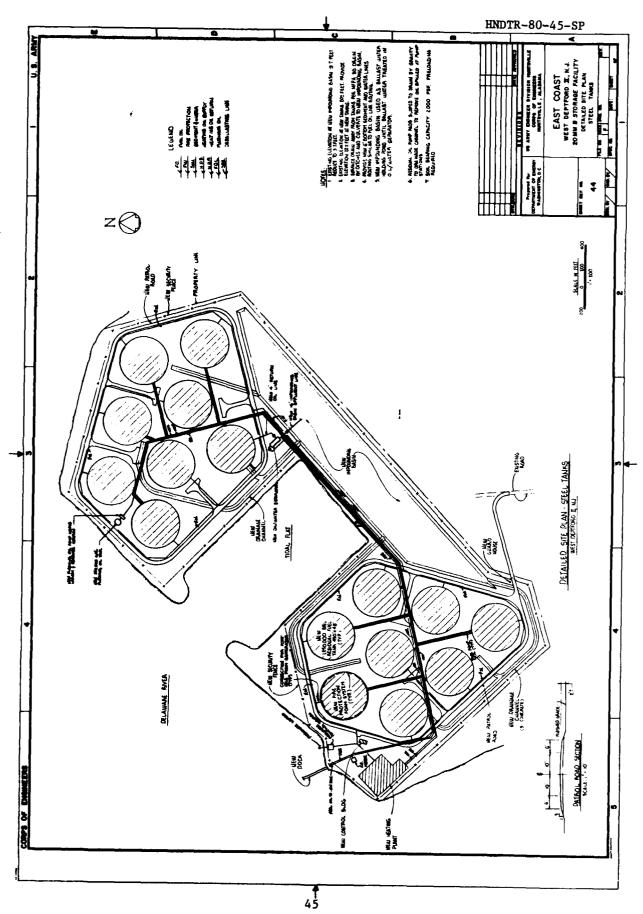


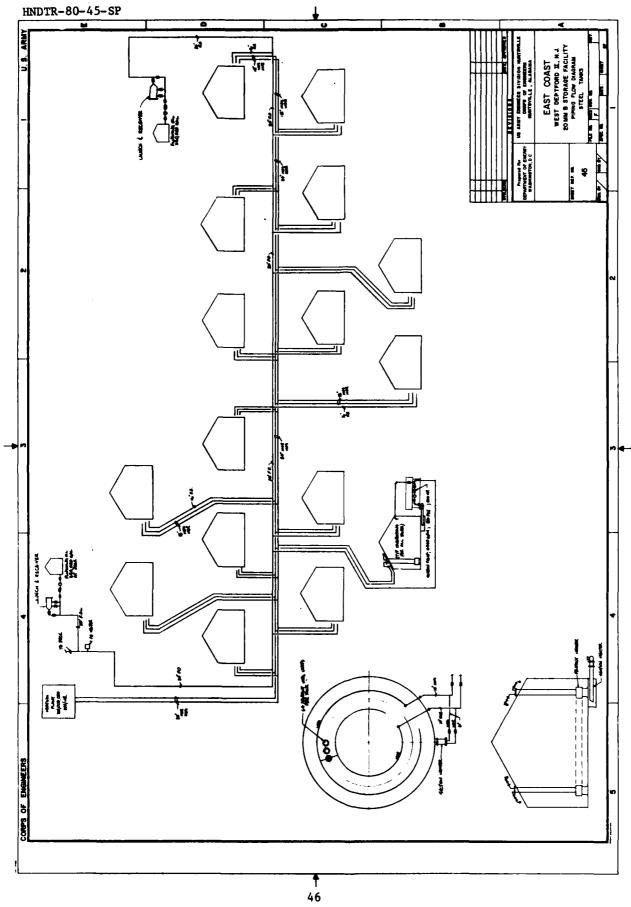


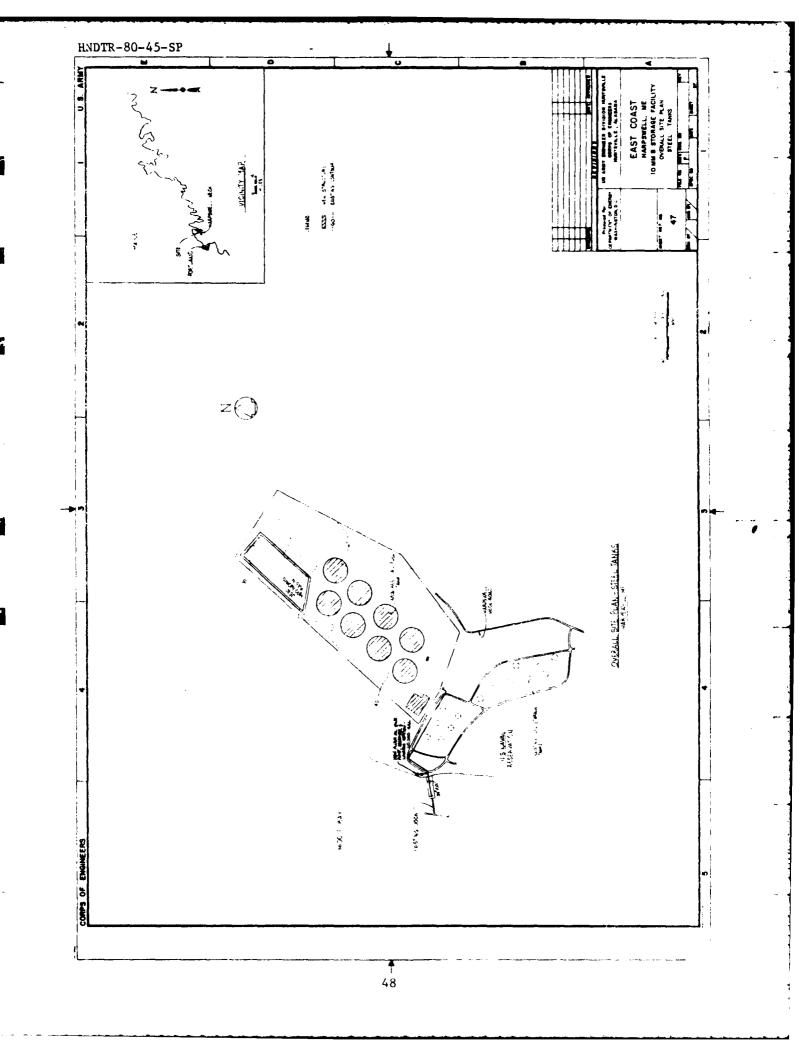


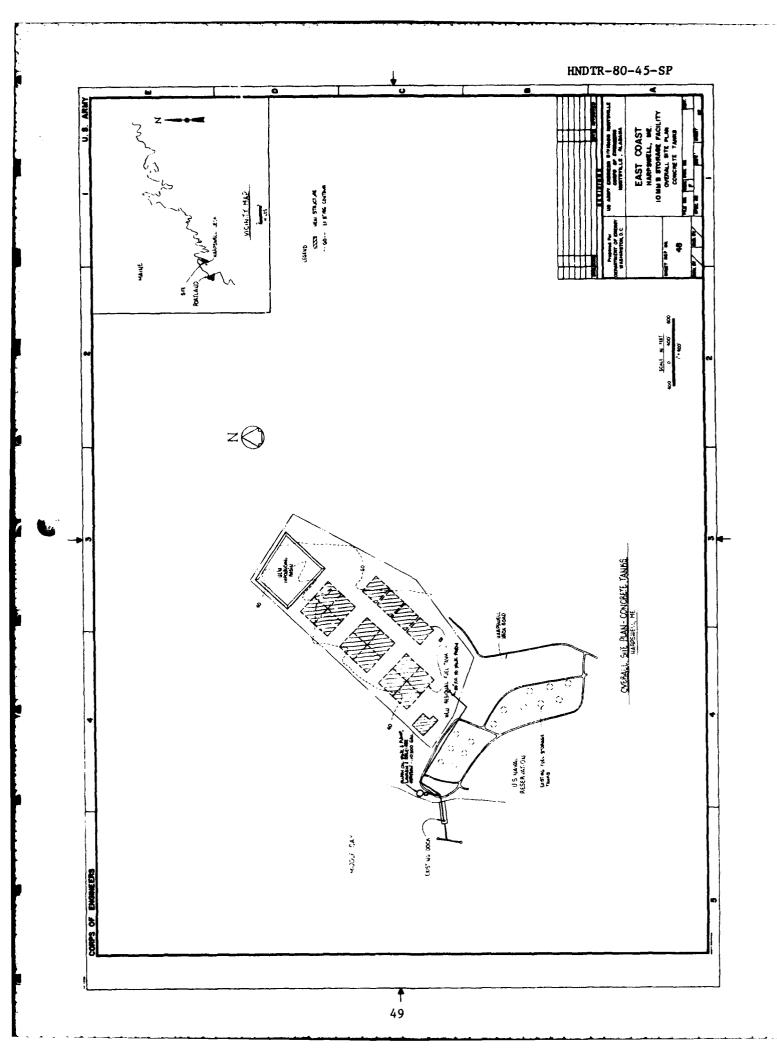


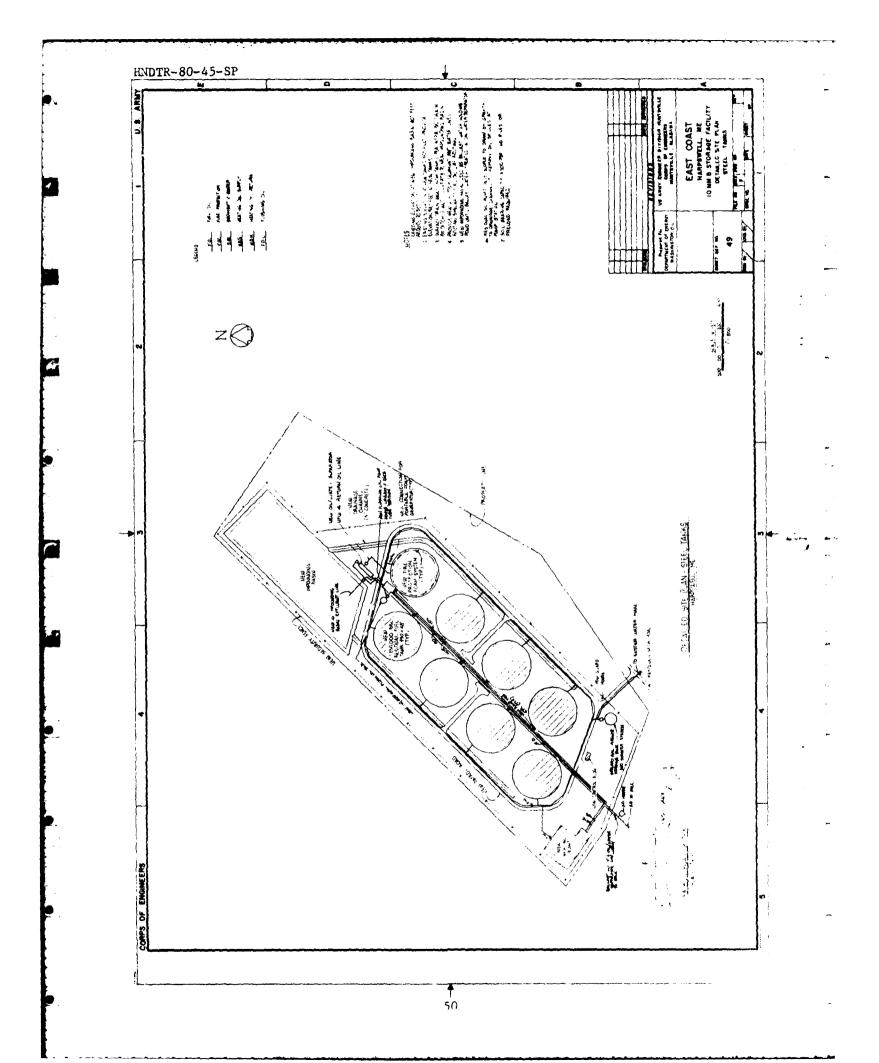


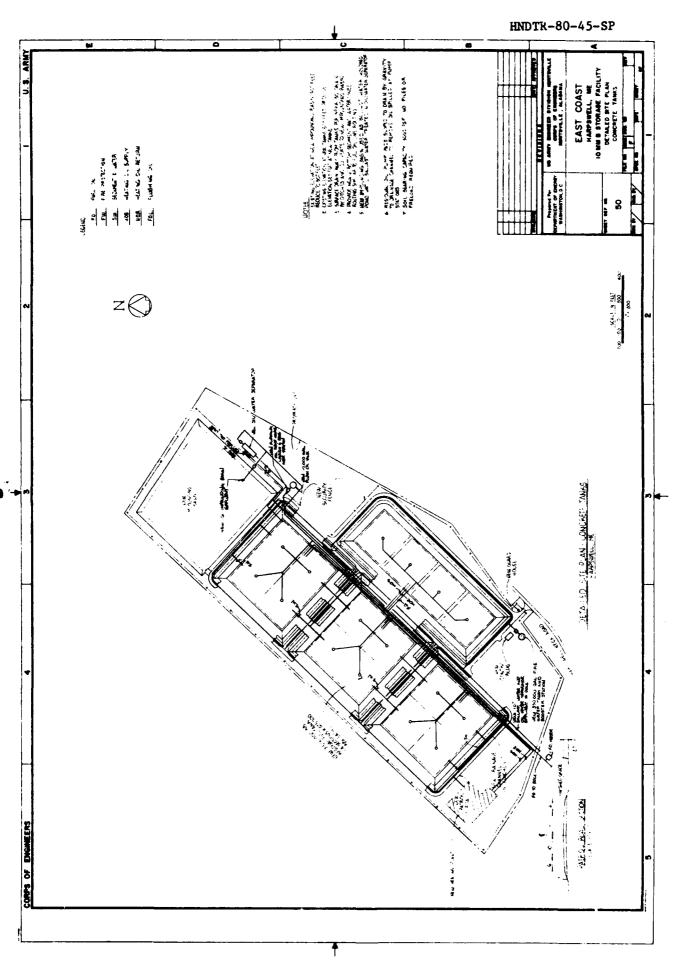


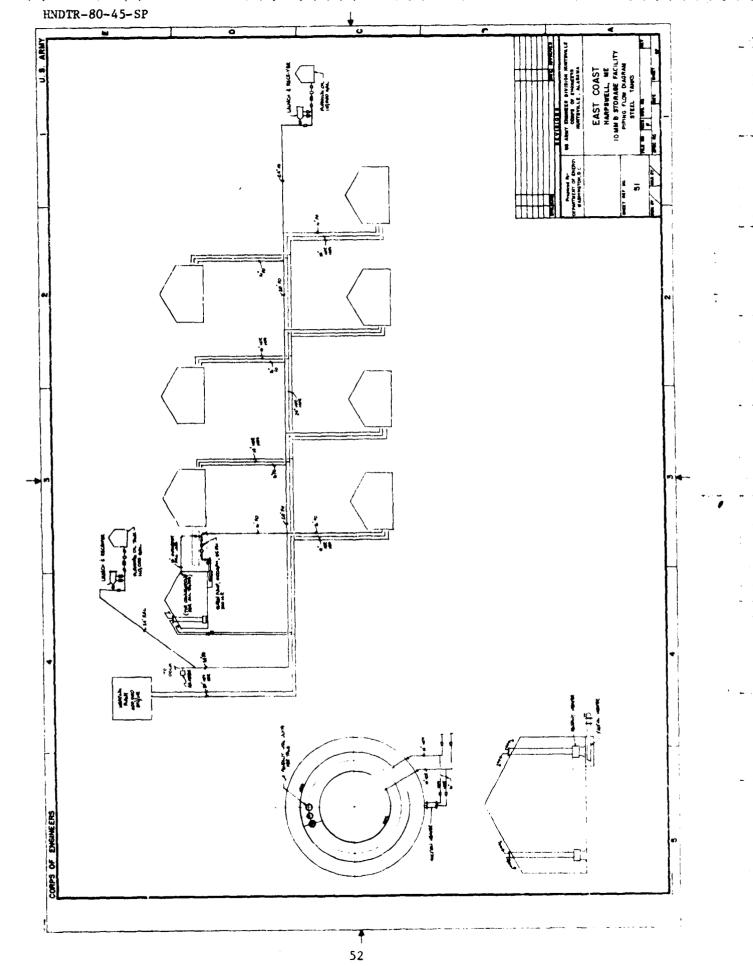


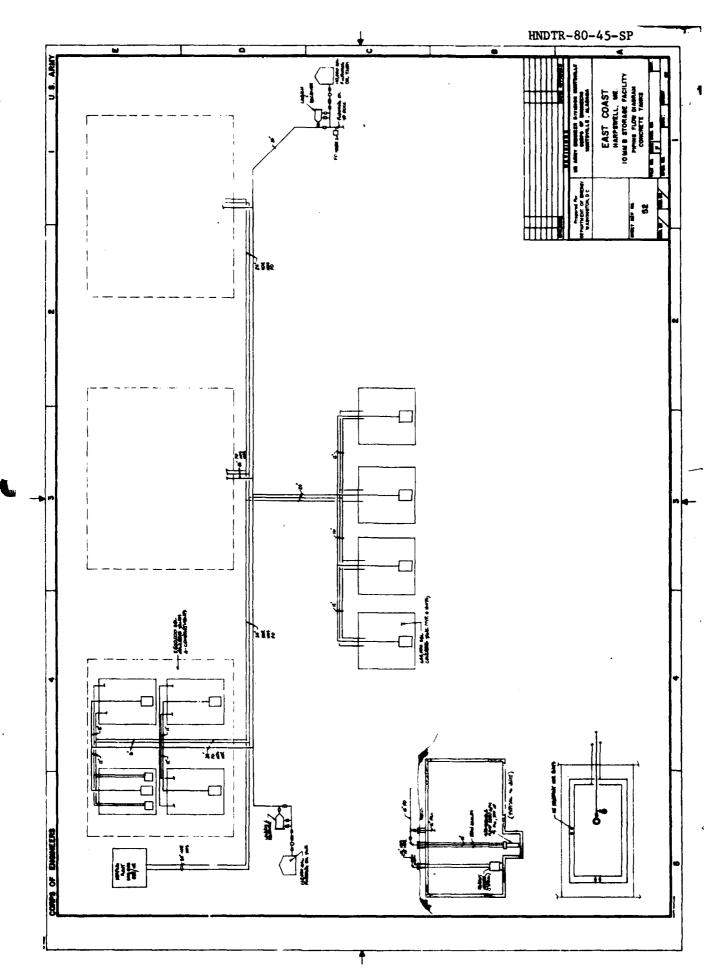


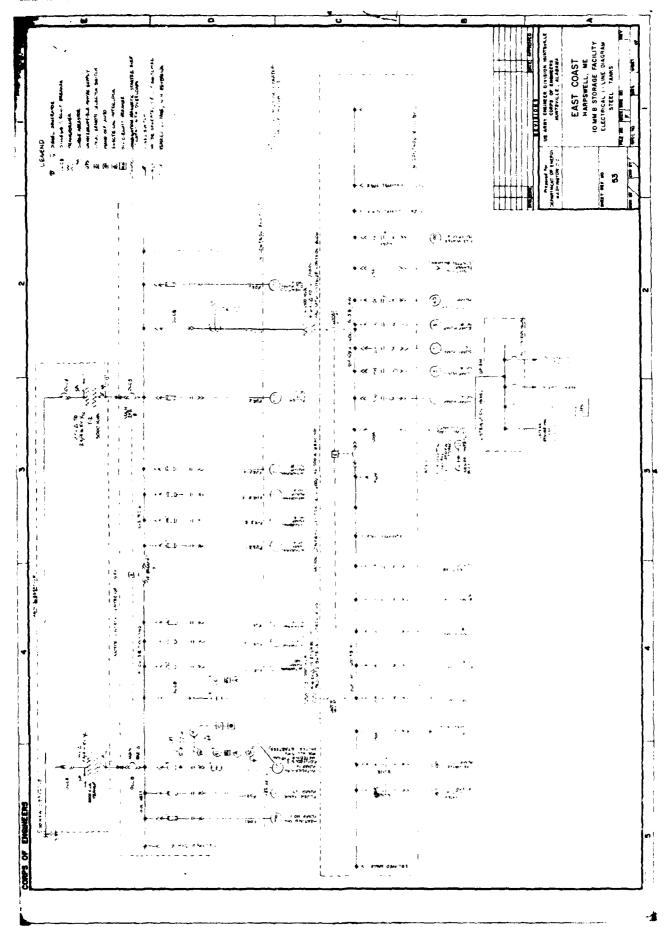


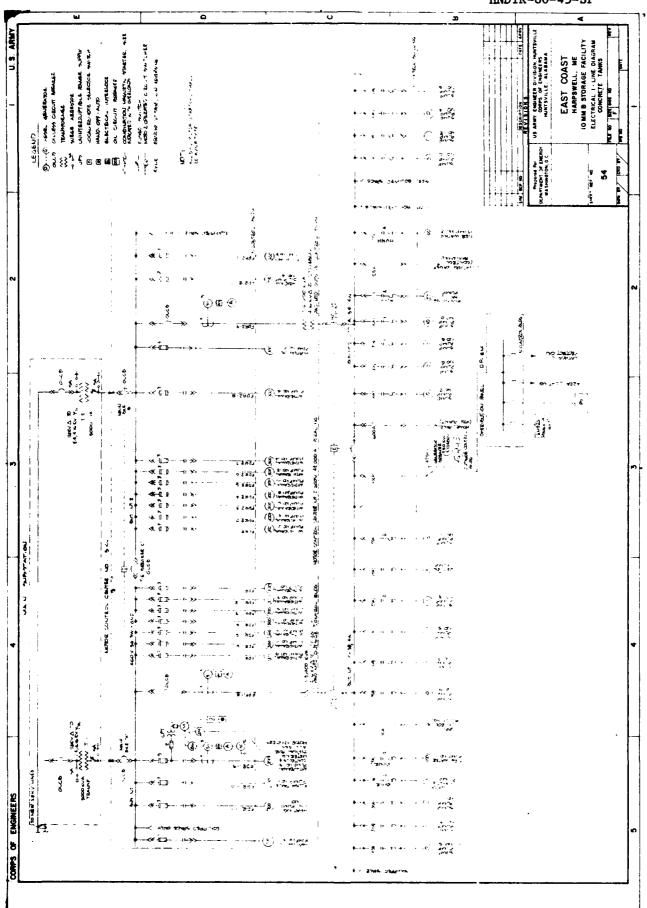


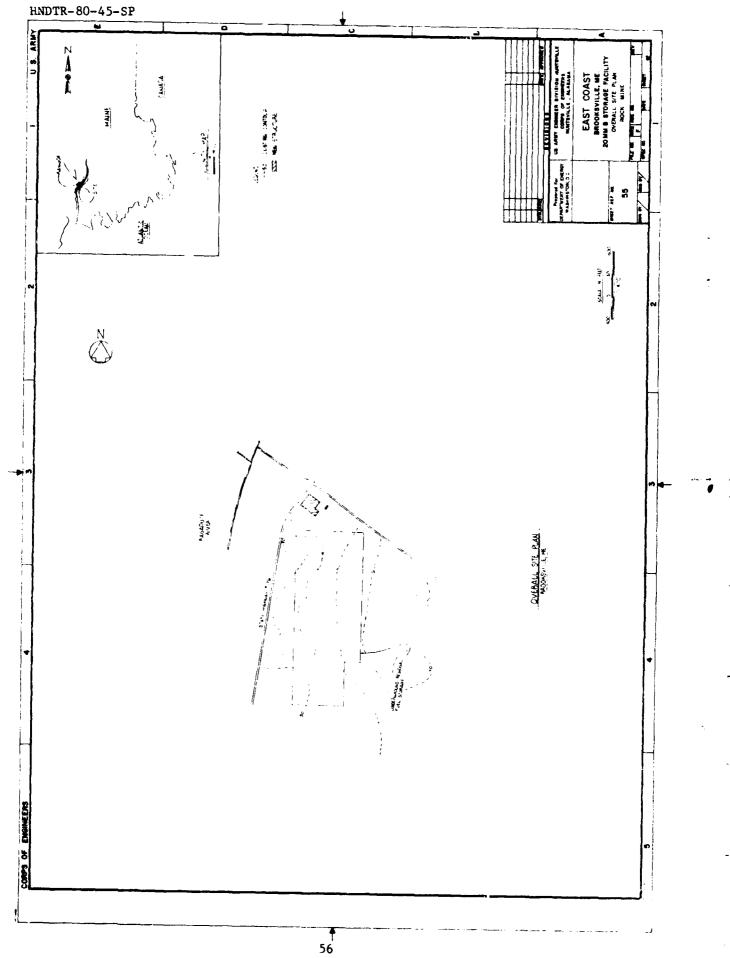


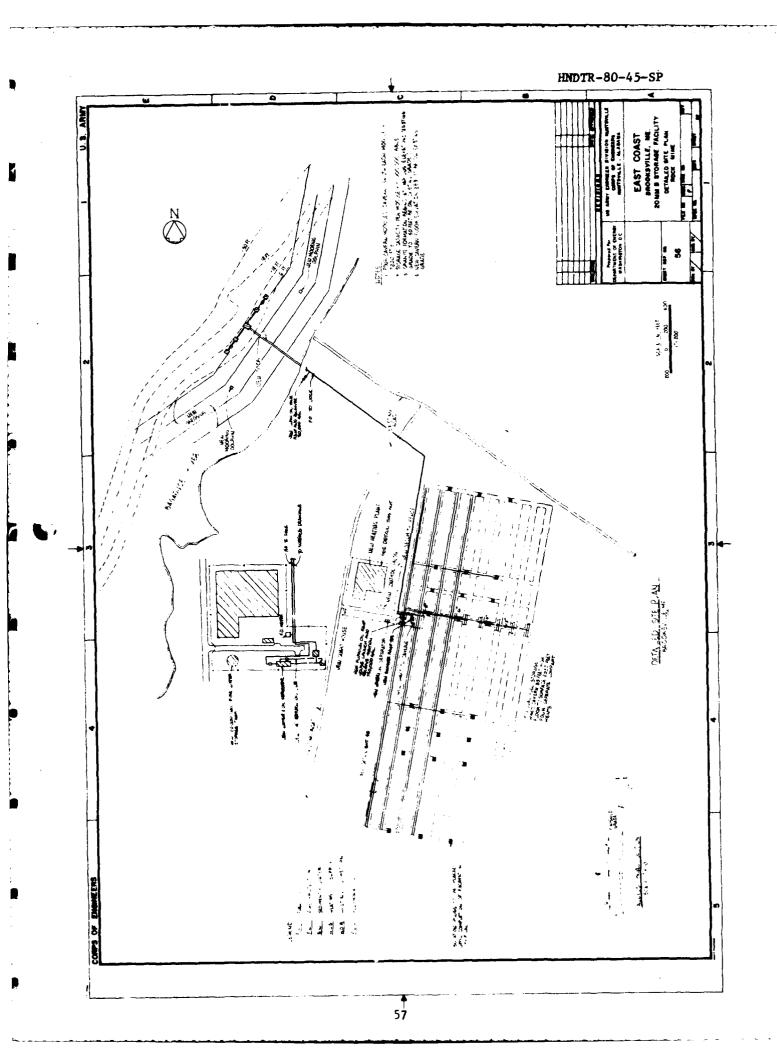


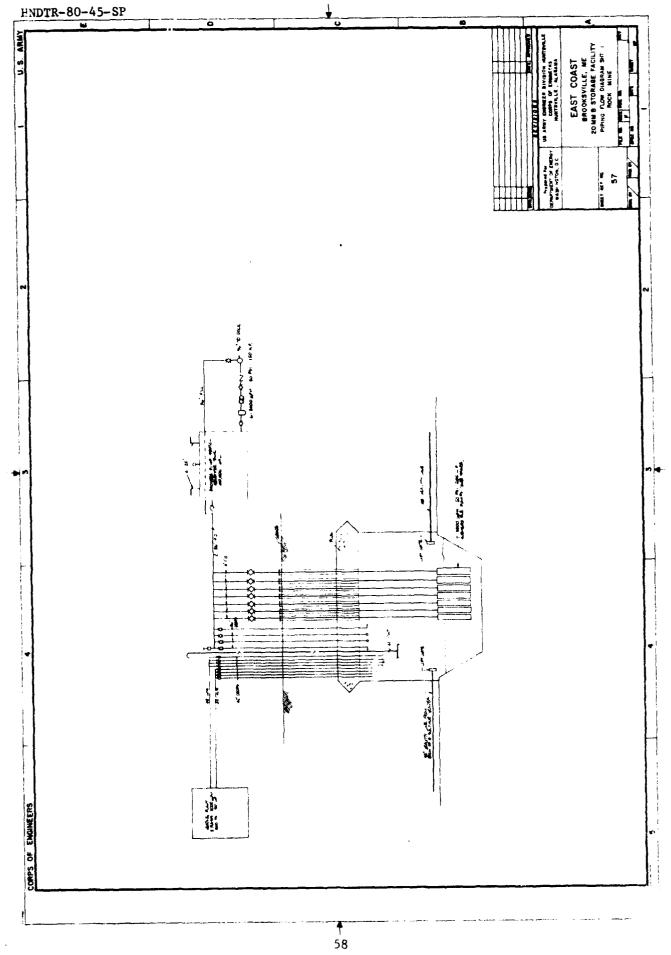


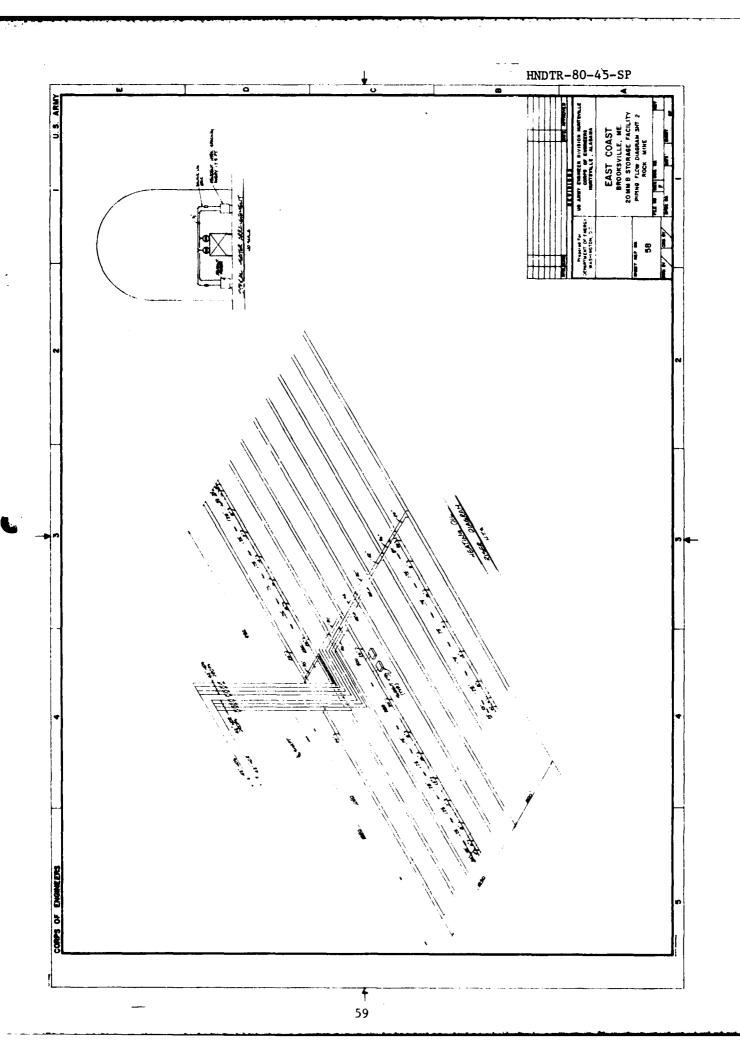


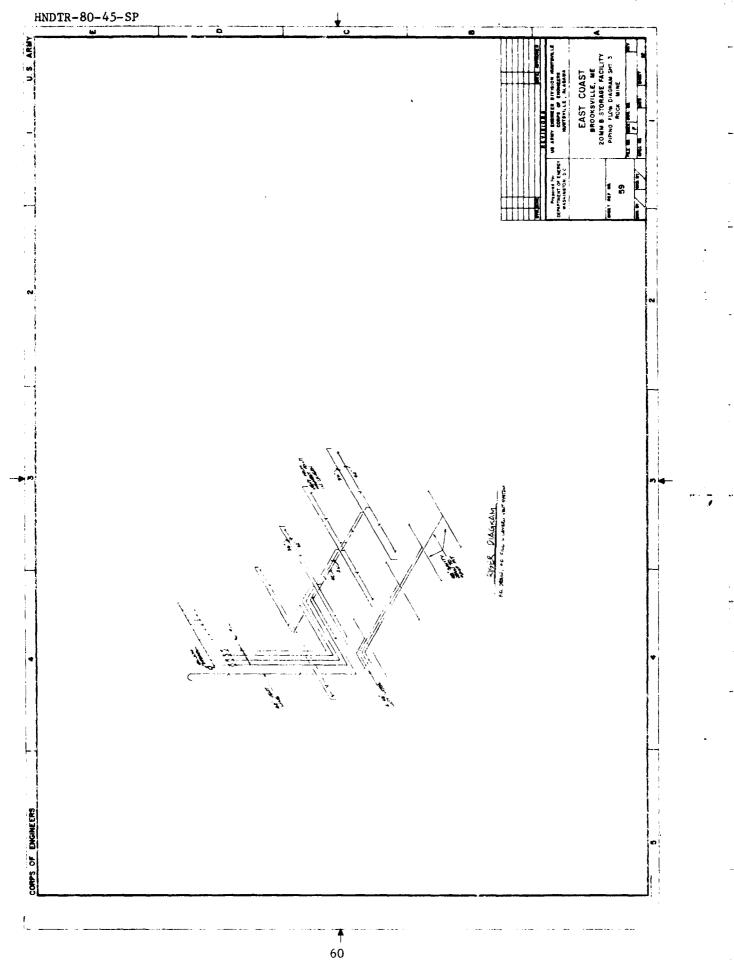


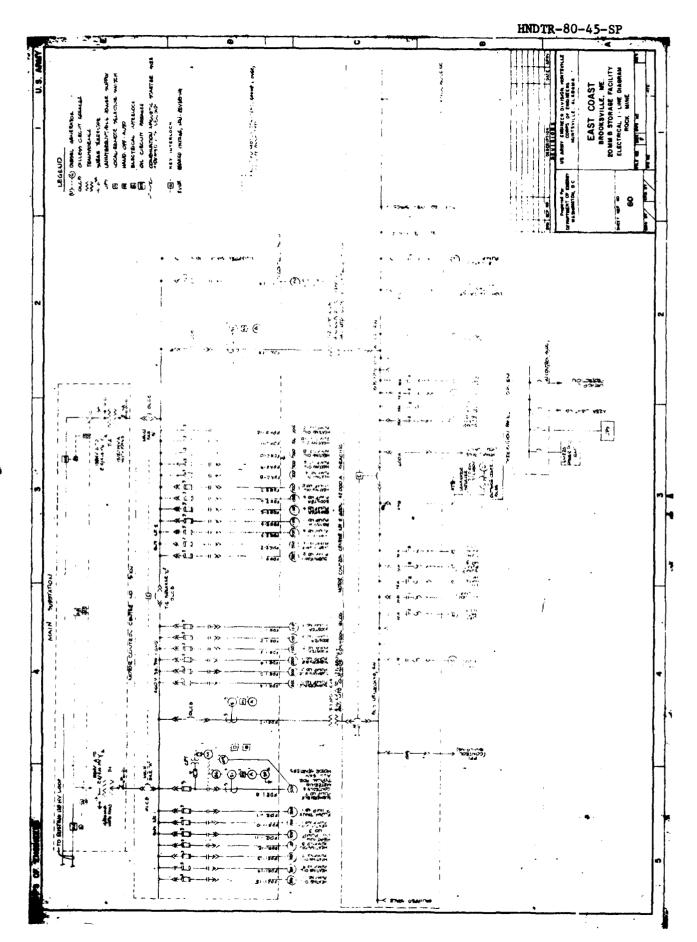


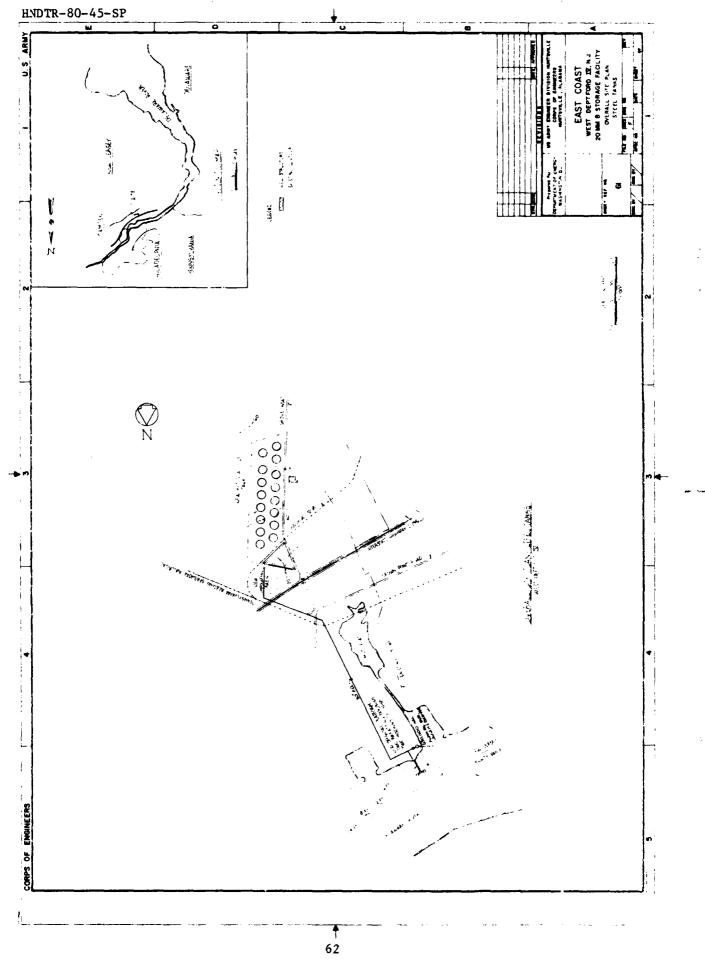


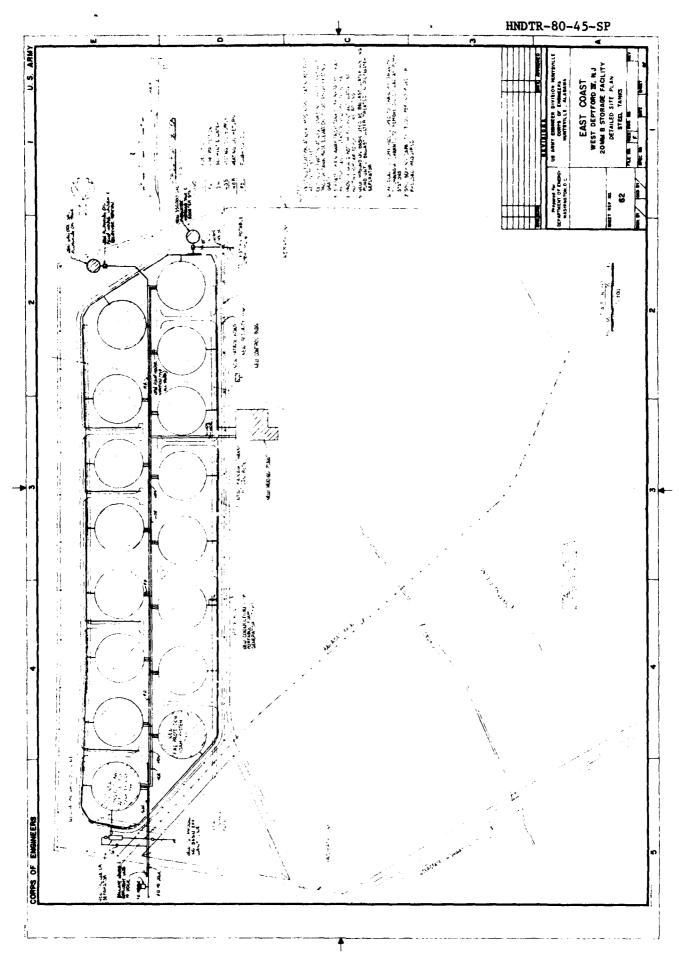


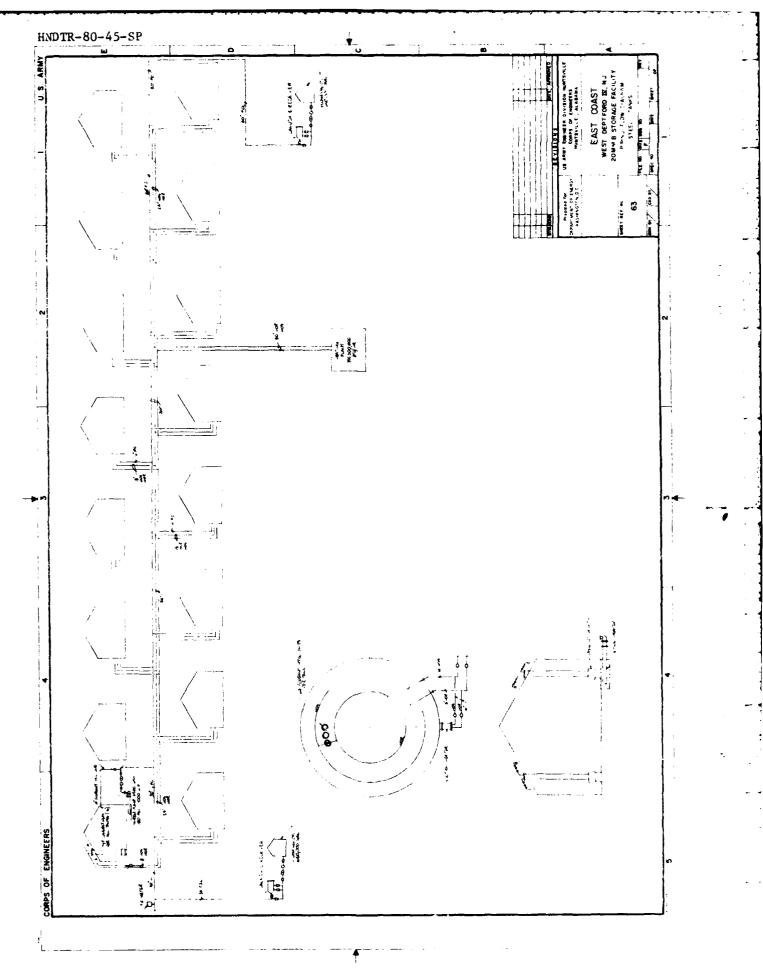












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CHAPTER 2

CONSTRUCTION COST ESTIMATES

FOR

POTENTIAL STORAGE SITES

### MODULE 1 - STORAGE SITE FACILITIES 1. Real Estate 2. Site Preparation clear, cut, fill, grade ioads dikes ponds ponds fences 3. Storage Tanks foundations foundations tank fabrication and erection heaters UDULT CHARLE 10,000,000 BBL Tanks	UNIT PRICE 25,932	COST	CITETOTAT
120 29,000 10.6 5700 10,000,000 n 10,000,000	25,932		SUBTOTHE
tion 1 fill, grade 29,000 29,000 10.6 5700 11 ts ts 10,000,000 12 12	25,932		
11, grade 120 29,000 10.6 5700 10,000,000 0n and erection 10,000,000	25,932		N/A
fill, grade 120 29,000 10.6 5700 10,000,000 ation and erection 10,000,000	25,932		\$5,995,300
29,000 10.6 5700 10,000,000 ation and erection 10,000,000		3,111,900	
10.6 5700 1 1 1 10,000,000 12	23.00	667,000	
10.6 5700 1 1 10,000,000 ation and erection 10,000,000		N/A	
5700 1 10,000,000 ation and erection 10,000,000 12	72,123	764,500	
1 10,000,000 10,000,000 10,000,000 12	15.00	85,500	
10,000,000 ation and erection 10,000,000 12		1,366,400	
lons 10,000,000 brication and erection 10,000,000 12			\$127,181,600
brication and erection 10,000,000 12	6.74	67,400,000	
12	4.90	49,000,000	
	838,465	10,061,600	
Insulation		N/A	
all other lot		720,000	
			\$10,592,100
piping (incl. valves, fittings, etc.) oil 7040 LF	292,09	2,056,300	
pumps (011) 12 Ea	129,600	1,555,200	
fire water 27,325 LF	53.00	1,448,200	
fire foam 12 Tanks	188,225	2,258,700	•5 - S
heat distribution 24"0, 18" 0, 14" 0 11,100 LF	294.00	3,263,400	

Sheet 2 of 4	STORAGE CAPACITY: 10,000,000 BBLS #6 011	QUANTITY UNIT PRICE COST SUBTOTAL	S31111
	ı, VA		SITE FACILITIES

MODULAR COST (1980' \$)					Sheet 2 of 4
Location: Portsmouth, VA S1	STORAGE CAPACITY:		10,000,000 BBLS #6 011		
	QUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES					
4. (Contd)		:			
potable water	009	Ĭ.P	00 9	3,600	
ganitary xxxxxxxxxxxxxxxxxxxxx	600	LF	11.17	6,700	
inert gas				N/A	
vapor recovery				N/A ·	•
all other				N/A	
5. Buildings/Structures					\$59,720,200
control/administration	11,200	SF	70.00	784,000	
maint./fire/warehouse	8,000	SF	61.00	488,000	
heating plant, support, & heating medium		Lot		58,354,000	
guard house	120	SF	85.00	10,200	
all other	1500	SF	56.00	84,000	
6. Electrical					\$4,999,600
gubstation	1	Lot		355,800	
distribution	-	Lot		4.103.600	
emergency (diesel gen.)	-	Lot		747 900	
exterior lighting	1	Lot		175,500	
power line to site	-1	Lot		2.000	
all other		Lot		114.800	

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Sheet 3 of 4		SUBTOTAL		\$1,465,000					\$613,800		N/A	N/A									
		COST			299,000	108,300	105 000	862.700	613,800												
	10,000,000 BBLS #6 011	UNIT PRICE																			· J
	- }	UHLT			Lot	Lot	Lot	Lot	Lot												
`	STORAGE CAPACITY:	OUANTITY			1	1	-	1	1												
MODULAR COST (1980 \$)	Location: Portsmouth, VA SI		MODULE I - STORAGE SITE FACILITIES (Contd)	7. Instrumentation	microprocessor	control panels/displays	security	all other	8. All Other Storage Site Items (Oily Water)	MODULE 2 - DOCK/TERMINAL FACILITIES	1, Real Estate	2. Dock	dock structure	dredging	loading arms	fire water and foam	control center	electrical (incl navaids)	fenders/dolphins	all other	

1. Real Estate					N/A
2. Pipeline					\$1,690,900
pipe (incl cathotic protection)	-4	Lot		129,900	
heaters Tape (Includes Site Piping)	1	Lot		186,600	
custody transfer metering	1	Lot		750,000	
launcher/receiver	2	Еа	312.200	624.400	
cycling capability					
all other			,		
3. All Other Transfer Facility Items					
1: 210,567,600 TOTAL MODULES I + II + III II: 449,400 III: 1,690,900				TOTAL =	\$212,707,900 \$21.27/BBL

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10,000,000 BBLS #6 011 Location: Portsmouth, VA (Concrete Tanks) STORAGE CAPACITY:

(cultur parameter)		- 1	OOO BELS #6 OIL	011	
	QUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES		_			
1. Real Estate					N/A
2. Site Preparation					\$12,315,300
clear, cut, fill, grade	120	AC	24,056	2,886,800	
roads	25,000	SY	23.00	575,000	
dikes (Embankment Around Tanks)	1	Lot		5,883,500	
ponds	13.3	AC	72,782	968,000	
fences	0009	LF	15.00	90,000	
all other (Turf, Drainage, Soil Study, Etc.)		Lot		1,912,000	
3. Storage Tanks					\$149,970.500
foundations	10,000,000	BBL	9.259	92,590,000	
tank fabrication and erection	10,000,000	BBL	4.532	45,320,000	
heaters	16	Tanks	309, 781	4,956,500	
insulation				N/A	
all other (Dewatering & Testing)	1	Joh		7,104,000	HNI
4. Piping Systems					\$12,063,300
piping (incl. valves, Fittings, etc.) oil	8020	LF	289.31	2,320,300	80-
pumps (oil)	16	Ea	63,682	1,018,900	45-
fire water w/tank	34,200	LF	37,54	1,283,900	SP
fire foam	16	Tanks	212,624	3,402,000	
heat distribution	20,080	LF	200,59	4,027,900	
				•	
	_	-	_	_	

MODULAR COST (1980' \$)					Sheer 2 of 4
Location: Portsmouth, VA (Concrete Tanks)	STORAGE CAPACITY:		10,000,000 BBLS #6 011	1	
	QUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES					
4. (Contd)					
potable water	009	LF	9.00	3600	
sanitary Kanchyxxneadmenth	009	LF	11.17	9029	•
inert gas					•
vapor recovery					
5. Buildings/Structures					\$36,879,900
control/administration	11,200	SF	70.00	784,000	·
maint./fire/warehouse	8,000	SF	61.00	488,000	
heating plant & Support	-4	Lot		35,513,700	
guard house	120	SF	85.00	10,200	
all other	1500	SF	56.00	84,000	
6. Electrical					5,288,000
gubstation	1	Lot		354,800	
distribution	1	Lot		4,381,700	
emergency (dlesel gen.)	1	Lot		247,900	
exterior lighting	-	Lot		234,600	
power line to site	1	Ţoţ		2,000	
all other				67,000	

MODULAR COST (1980 \$)	,				Sheet 3 of 4
Location: Portsmouth, VA (Concrete Tanks)	STORAGE CAPACITY: 10,000,000 BBLS #6 011	TY: 10,000,000	BBLS #6 011		
	QUANTITY	LIND	UNIT PRICE	COST	SUBIOIAL
MODULE I - STORAGE SITE FACILITIES (Contd)					•
7. Instrumentation					\$1,416,800
nicroprocessor	1	Lot		350,600	
control panels/displays	1	, Lot		131.700	
security	1	Lot		195,000	
all other	1	Lot		739,500	
8. All Other Storage Site Items					009*906\$
MODULE 2 - DOCK/TERMINAL FACILITIES					
1. Real Estate					N/A
2. Dack					N/A
dock structure					
dredging					
loading arms					
fire water and foam					
control center					HN
electrical (incl navaids)					DTR-
fenders/dolphins			·		-80-
all other					-45-
				ţ	SP
				•	

MODULAR COST (1980 \$)					Sheet 4 of 4 W
Location: Portsmouth, VA (Concrete Tanks) S	TORAGE CAPACI	STORAGE CAPACITY: 10,000,000 BBLS	0 BBLS #6 011	1	OTR-
	OUANTITY	LINN	UNIT PRICE	COST	SUBTOTAL
MODULE II - DOCK/TERMINAL FACILITIES (Contd)		•			45-8
3. Terminal		•			\$449,400
de-ballasting (Piping	2500	LF	65.50	163,800	
surge tanks				N/A	
purge tanks	2	EA	142,800	285,600	
booster pumps				N/A	
control center				N/A	
fire water and foam				N/A	
electrical				N/A	
all other				N/A	
4. All Other Dock/Terminal Items					
MODULE 3 - TRANSFER FACILITIES					
1. Real Estate				N/A	
2. Pipeline					\$1,998,500
pipe (incl cathotic protection)	1	Lot		255,900	
heaters (Includes Site Fiping)	1	Lot		205,400	
custody transfer metering	1	Lot		750,100	
launcher/receiver	2	Еа	393,550	787,100	
cycling capability	٠				
all other					,
3. All Ot'er Transfer Facility Items				N/A	
I-\$218,840,400 TOTAL MODULES I + II + III II-\$449,400 III -\$1,998,500				TOTAL =	\$221,288,300 \$22.13/BBL
		-		•	

Sheet 1 of 4

MODULAR COST (1980 \$) Location: Canaveral, FL

. 1	QUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES		•			
1. Real Estate					N/A
2. Site Preparation					7,633,300
clear, cut, fill, grade	190	AC	14,760	2,804,400	
roads	44,000	SY	23.00	1,012,000	
dikes				N/A	
ponds	41.3	AC	59,927	2,475,000	
fences	11,700	LF	15.00	175,509	
all other (Turf, Drainage, Soil Investi-	1	Lot		1,166,400	
3. Storage Tanks					\$70,031,600
foundations w/Preload	10,000,000	BBL	1.033	10,330,000	
tank fabrication and erection	10,000,000	BBL	4.904	49,040,000	
heaters	12	Tanks	838,467	10,061,600	
insulation				N/A	
all othe Load & Test)	1	Lot		000,009	
4. Piping Systems					\$11,474,600
piping (incl. valves, fittings, etc.) oil	000*9	LF	381.43	2,288,600	
pumps (011)	12	Еа	189,000	2,268,000	
fire water	29,425	LF	51.88	1,526,600	
fire foam	12	Tanks	188,225	2,258,700	
heat distribution	10,800	1.6	289.11	3,122,400	
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HNDTR	-80-	45-SP
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MODULAR COST (1980'S)					Sheet 2 of 4
Location: Canaveral, FL	STORAGE CAPACITY:	Y: 10,000,000 BBLS	00 BBLS #6 011	11	
	QUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES					
4. (Contd)		!			
potable water	909	LF	9.00	3,600	-
sanitary (inclay brochasho)	009	LF	11.17	6.700	
inert gas				N/A	
vapor recovery				N/A	
all other				N/A	
5. Buildings/Structures					\$35,906,200
control/administration	11,200	SF	70.00	784.000	
maint./fire/warehouse	8,000	SF	61.00	000 887	
heating plant	H	Lot		34.540.000	
guard house	120	SF	85.00	10 200	
all other	1500	SF	56.00	84,000	
6. Electrical					\$10.102.600
gubstation	-4	Lot		698, 200	
distribution	1	Lot		2,816,400	
emergency (diesel gen.)	1	Lot		247,900	
exterior lighting	F	Lat		262,800	
power line to site				5,964,000	
all other	1	Lot		113,300	
				-	

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Sheet 3 of 4		SUBTOTAL	•	\$1,643,400			,		\$672,000		N/A	N/A	4/4				HIN	DTR.	-80-	-45-	SP		
	Į.	COST			395,000	170,200	407,000	671,200	672,000	·												ì	
	10,000,000 BBLS #6 011	UWIT PRICE					٠																
		TIMO			Lot	i Lot	Lot	Lot	Lot														
~	STORAGE CAPACITY:	QUANTITY			1	1	1	1	1														
MODULAR COST (1980 \$)	Location: Canaveral, FL S		MODULE I - STORAGE SITE FACILITIES (Contd)	7. Instrumentation	microprocessor	control panels/displays	security	all other	8. All Other Storage Site Items (Oily Water)	WODULE 2 - DOCK/TERMINAL FACILITIES	1, Real Estate	2. Dock	dock structure	dredging	loading arms	fire water and foam	control center	electrical (incl navaids)	fenders/dolphins	all other			

Location:Canaveral, FL	STORAGE CAPACITY:		10,000,000 BBLS #6 011		
	OUANTITY	Y UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE II - DOCK/TERMINAL FACILITIES (Contd)	•.	•			
3. Terminal		•			\$1,075,200
de-ballasting	-	Lot		657,200	
surge tanks				N/A	
purge tanks	-1	Lot		285,600	,
booster pumps				N/A	
control center	-			N/A .	
fire water and foam				N/A	
electrical	1	Lot		132,400	
all other				N/A	
ω 4. All Other Dock/Terminal Items					N/A
MODULE 3 - TRANSFER FACILITIES		,			
1. Real Estate Easement	1	Lot		322,000	\$322,000
2. Pipeline				•	\$9,239,800
pipe (incl cathotic protection)	29,150) LF	242.48	7,068,300	
heaters Tape		Lot		909	
custody transfer metering		Lot		750,000	
launcher/receiver	2	Ea	407,750	815,500	
cycling capability				N/A	
all other				N/A	,
3. All Other Transfer Facility Items				N/A	
TOTAL MODULES I + II + III II- 1,075,200 9,561,800		·		TOTAL -	\$148,100,700 \$14.81/BBL
			-		-

Sheet 1 of

HNDTR-80-45-SP \$5,235,200 \$64,914,300 \$9,554,800 N/A SUBTOTAL 2,203,700 546,000 1,304,000 134,400 1,047,100 45,436,000 9,316,300 1,420,400 -2,091,400 2,779,700 9,612,000 550,000 573,800 000,089 N/A 1 COST 10,000,000 BBLS #6 011 UNIT PRICE 96,307 174,283 140,000 27,546 21.8 13.85 47.96 342, 12 776,358 4, 5436 9612 BBLS BBLS TANKS TANKS UNIT A S 占 AC Ba STORAGE CAPACITY: 10,000,000 QUANTITY 10,000,000 9.700 13.54 26,000 29,616 4600 14 80 piping (incl. valves, fittings, etc.) oil all other (Turf, Drainage, Soils Etc.) Location: Portsmouth, N.H. (Steel Tanks) tank fabrication and erection MODULE 1 - STORAGE SITE FACILITIES (Fill & Test) clear, cut, fill, grade heat distribution Site Preparation Piping Systems Storage Tanks foundations (110) sdmnd fire foam insulation Real Estate all other fire water heaters fences dikes ponds roads

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of
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Sheet

MODULAR COST (1980 \$)			·		Sheet 2 of 4
Location: Portsmouth, N.H. (Steel Tanks)	STORAGE CAPACITY:		10,000,000 BBLS #6 011		30-4.
	QUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES					P
4. (Contd)		•.			
potable water	009	LF	5.50	3,300	
ganitary (Angkaxtagastassik)	009	LF	10.33	6,200	
inert gas				N/A	
vapor recovery				N/A	
all other				N/A	
5. Buildings/Structures					\$56,718,000
control/administration	11,200	SF	65.00	728,000	
maint./fire/warehouse	8,000	SF	56.50	452,000	
heating plant	1	Lot		55,450,500	
guard house	120	SF	79.00	9,500	
all other	1500	SF	52.00	78,000	
6. Electrical				,	\$4,587,900
gubstation	1	Lot		390,000	
distribution	7	Lot		3,711,000	
emergency (diesel gen.)	1	Lot		229,600	
exterior lighting	1	Lot		147,200	·- ·-
power line to site	1	Lot		2,000	
all other	Н	Lot		108,100	
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MODULAR COST (1980 \$)	~				Sheet 3 of 4
Location: Portsmouth, N.H. (Steel Tanks)	STORAGE CAPACITY:		10,000,000 BBLS #6 0i1	11	
	QUANTITY	TINU	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES (Contd)					•
7. Instrumentation					\$1,379,300
microprocessor	1	Lot		187,900	
control panels/displays	ы	l Lot		117,900	
security	1	Lot		328,400	,
all other	1	Lot		745,100	
8. All Other Storage Site Items	1	Lot		538,800	. \$538,800
MODULE 2: - DOCK/TERMINAL FACILITIES					
1. Real Estate					N/A
2. Dock					N/A
dock structure					
dredging					
loading arms					
fire water and foam					•
control center					HNI
electrical (incl navaids)					OTR-
fenders/dolphins			-		-08
all other					45-
				,	SP
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MODULAR COST (1980 \$)					Sheet 4 of 4 H
Location: Portsmouth, N.H. (Steel Tanks) S	STORAGE CAPACITY:	IY: 10,000,000 BBL	000 BBL #6 011	011	rr-
	QUALITY	UNIT		COST	SUBTOTAL
MODULE II - DOCK/TERMINAL FACILITIES (Contd)		•			5-S
3. Terminal		٠			\$871.500
de-ballasting	-	Lot		608,500	
surge tanks				N/A	
purge tanks	2	Ea	127,700	255,400	
booster pumps				N/A	
control center				N/A	
fire water and foam				N/A	
electrical		Lot		7,600	
all other				N/A	
4. All Other Dock/Terminal Items					N/A
MODULE 3 - TRANSFER FACILITIES					•
1. Real Estate	1	Lot		45,500	\$45,000
2. Pipeline					\$2,986,700
pipe (incl cathotic protection)	9890	LF	207.15	1,408,600	
heatore Tape	1	Lot		305,600	
custody transfer metering	1	Lot		694,500	
launcher/receiver	2	Ea	289,000	578,000	
cycling capability				N/A	
all other		•		N/A	,
3. All Other Transfer Facility Items					N/A
TOTAL MODULES I + II + III $_{\rm II-}$ \$871,500 $_{\rm III-}$ \$3,031,700				TOTAL -	\$146,831,500 \$14.68/BBL
		-		•	

STORAGE CAPACITY: 10,000,000 B3LS #6 011 Location: Portsmouth, N.H. (Concrete Tanks)

Sheet 1 of 4

		QUANTITY	UNIT UNI	UNIT PRICE . (COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES	E SITE FACILITIES					
1. Real Estate						N/A
2. Site Preparation	lon					\$11,973,100
clear, cut,	clear, cut, fill, grade	130	AC	26,773	3,480,500	
roads		57,000	SY	21.00	1,197,000	
dikes (Embar	dikes (Embankment & Backfill Around Tanks)	1	Lot		3,219,000	
bonds		13.54	AC	96,307	1,304,000	
fences		15,000	LF	13.85	207,800	
all other		1	Lot		2,564,800	
3. Storage Tanks						\$53,546,300
foundations		10,000,000	BBL	0.67	6,700,000	
tank fabrica	tank fabrication and erection	10,000,000	BBL	3.566	35,660,000	
heaters		16	TANKS	382,442	4,589,300	
insulation					N/A	
all other ((Dewatering, Testing)	1	Lot		6,597,000	HIN
4. Piping Systems	18					\$11,449,200
piping (inc.	piping (incl. valves, fittings, etc.) oil	0058	I.F	260.44	2,187,700	-80-
pumps (o11)		16		58.406	934.500	43 -
fire water		34,016	LF	46.75	1,590,300	SP
fire foam		16	Tanks	196,875	3,150,000	
heat distribution	bution	20,600	T.	173.65	3,577,200	
					•	

Sheet 2 of 4

	SUBTOTAL	-							\$34,150,000	·					\$4,354,100						1	
1	COST			3,300	6,200	N/A	N/A	N/A		728,000	452,000	32, 883,000	9,500	78,000		390,000	3,502,900	229,600	144,400	2,000	85,200	•
10,000,000 BBLS #6 011	INIT PRICE			5.50	10.33					65.00	56.50		79.00	52.00								
	TITT			LF	LF					SF	SF	Lot	SF	SF		Lot	Lot	Lot	Lot	Lot	Lat	
STORAGE CAPACITY:	OUANTITY			009	009					11,200	8,000		120	1500						p-w]	7	
Location: Portsmouth, N.H. (Concrete Tanks) STC		MODULE I - STORAGE SITE FACILITIES	4. (Contd)	potable water	sanitary kángkeztagatkk	inert gas	vapor recovery	all other	5. Buildings/Structures	control/administration	maint./fire/warehouse	heating plant	guard house	all other	6. Electrical	gubstation	distibution	emergency (diesel gen.)	exterior lighting	power line to site	all other	

HNDTR-	-80-	-45-	S
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MODULAR COST (1980 \$)	•				Sheet 3 of 4
Location: Portsmouth, N.K. (Concrete Tanks)	STORAGE CAPACITY: 10,000,000 BBLS #6 011	TY: 10,000,00	00 BBLS #6 011		
	QUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES (Contd)					•
Instrumentation					\$1,740,900
microprocessor	. 1	Lot		354,300	
control panels/displays	1	Lot		130,800	
security	1	Lot		327.400	,
all other	1	Lot		928.400	
All Other Storage Site Items	1	Lot		616,600	\$616,600
MODULE 2: - DOCK/TERMINAL FACILITIES					
Real Estate					V/N
					N/A
dock structure					
dredging					
loading arms					
fire water and foam					,
control center					н
electrical (incl mayaids)					ND TF
fenders/dolphins					K-80
all other					-45
					-SP
-					

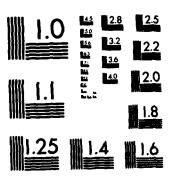
MODULAR COST (1980 \$)					Sheet 4 of 4 MH	
Location: Portsmouth, N.H. (Concrete Tanks) ST	STORAGE CAPACITY:		10,000,000 BBLS #6 011	-	TR-	
	OUANTITY	U.II	IETT PRICE	COST	SUBTOTAL	
MODULE II - DOCK/TERMINAL FACILITIES (Contd)		•	Topographic and the second sec	and the state of t	45-S	
3. Terminal					\$876,400	
de-ballasting	1	Lot		621,000	•	
surge tanks				N/A		
purge tanks	2	Ea	127,700	255,400		
booster pumps				N/A		
control center				N/A		
fire water and foam				N/A		
electrical (In Module I)						
all other				N/A		
4. All Other Dock/Terminal Items					N/A	
MODULE 3 - TRANSFER FACILITIES						
1. Real Estate	1	Lot		45,500	\$45,500	
2. Pipeline					\$3.280.700	
pipe (incl cathotic protection)	6800	LF	199.28	1,355,100		
heaters Tape	1	Lot		371,100		
custody transfer metering	1	Lot		694,500		
launcher/receiver	2	Ea	430,000	860,000		
cycling capability				N/A		
all other				N/A		
3. All Other Transfer Facility Items					N/A	
TOTAL MODULES I + II + III $\begin{array}{cccccccccccccccccccccccccccccccccccc$	000			TOTAL -	\$122,033,300 \$12.20/BBL	

Sheet 1 of 4

MODULAR COST. (1980 \$)

Location: Calverton, N.Y. (Concrete Tanks) S1	STORAGE CAPACITY:		10,000,000 BBLS #6 0il	il	
	OUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES		,			
1, Real Estate					N/A
2. Site Preparation					\$14,185,300
clear, cut, fill, grade	138	AC	44,256	6,107,300	
roads	46,000	SY	27.00	1,242,000	
dikes	445,000	CX	7.00	3,115,000	
ponds	7.8	AG	102, 500	799, 500	
fences	9570	LF	17.60	168,500	
all other(Turf, Drainage, Soil Study, Etc)	1	Lot		2,753,000	
3. Storage Tanks					\$74,564,100
foundations	10,000,000	BBL	1.1383	11,383,000	
tank fabrication and erection	10,000,000	BBL	4.9012	49,012,000	
heaters	7	Lot		5,813,100	
Insulation				N/A	
all other (Dewalering & Testing)	1	Lot		8,356,000	
4. Piping Systems					\$15,537,400
piping (incl. valves, fittings, etc.) oil	8,600	LF	328.32	2,823,600	
pumps (oil)	16	Ea	190,000	3,040,000	
fire water	30,375	LF	60.42	1,835,300	
fire foam	16	Tanks	249,375	3,990,000	
heat distribution	17,200	(F	223.05	3,836,500	
				•	
					_

EAST COAST RÉGIONAL PETROLEUM RESERVE (RPR) VOLUME 2 POTENTIAL STORAGE SI. (U) ARMY ENGINEER DIV HUNTSYLLE AL R E SHANNON ET AL. 30 SEP 80 HNDTR-80-45-SP-VOL-2 F/G 21/4 AD-A144 650 2/3 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

Sheet 2 of

Location: Calverton, N.Y. (Concrete Tanks) S	STORAGE CAPACITY:		10,000,000 BBLS #6 011	11	
	OHANTTY	TIM	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES					-
4. (Contd)					
potable water	009	LF	7.00	4200	
ganitary (incltreatment)	009	LF	13.00	7800	
inert gas				N/A	
vapor recovery				N/A .	
all other				N/A	
5. Buildings/Structures		-			\$43,000,700
control/administration	11,200	SF	82.00	918,400	
maint./fire/warehouse	8,000	SF	72.00	576,000	
heating plant	1	Lot		41, 395, 300	
guard house	120	SF	100.00	12,000	

99,000

520,600

Lot Lot

4,300

824,400

290,800 139,700

rot rot

emergency (diesel gen.)

gubstation distribution

all other

Electrical

exterior lighting power line to site

all other

0ST (1980 \$)	, STORAGE CAPACITY:		10,000,000 BBLS #6 011	11	Sheet 3 of 4
	QUANTITY	S	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES (Contd)					
7. Instrumentation					\$1,950,300
1	1	Lot		369,400	
control panels/displays	1	, Lot		215,800	
security	1	Lot		312,100) .
all other	1	Lot.		1,053,000	
8. All Other Storage Site Items	1	Lot		975,000	\$975,000
	;		: :		
Real Estate	30	AC	29,783	893,500	\$893,500
1					\$3,439,400
}	1	Lot		890,200	
dredging				N/A	
loading arms	1	Lot		571,200	
fire water and foam	1	Lot		45,100	
control center	1	Lot		60,000	
electrical (incl mavaids)	r-1	Lot		489,200	
fenders/dolphins	Į.	Lot	·	1,383,700	
all other				N/A	+5-S
	<u>.</u>				

HNDTR-80-45-SP \$172,675,900 \$17.27/BBL \$1,061,400 89.818.100 \$386,900 Sheet 4 of SUBTOTAL TOTAL = 732,200 738,000 323,400 386,900 7,561,800 644,400 879,700 N/AN/A A/M N/A N/AN/A N/A N/AN/A COST STORAGE CAPACITY: 10,000,000 BBLS #6 011 UHIT PRICE 161,700 264.77 TIT Lot Lot Lot Lot Бa Lot LF OUARITITY 28,560 I- \$157,076,600 II- \$ 5,394,300 III -\$ 10,205,000 MODULE II - DOCK/TERMINAL FACILITIES (Contd) N.Y. (Concrete Tanks) electrical (Included with Dock) All Other Transfer Facility Items pipe (incl cathotic protection) All Other Dock/Terminal Items - TRANSFER FACILITIES custody transfer metering TOTAL MODULES I + II + III fire water and foam cycling capability launcher/receiver dalrerten. control center booster pumps de-ballasting heaters Tape surge tanks purge tanks Real Estate all other all other Terminal Pipeline MODULE 3 Location:

MODULAR COST (1980 \$)

Sheet 1 of 4

Location: Calverton, N.Y. (Concrete Tanks) ST	STORAGE CAPACITY:	rx: 20,000,000	00 BBL #6 011		
	QUANTITY	TIMU	UMIT PRICE	COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES		•			-
1. Real Estate					N/A
2. Site Preparation					\$21,085,800
clear, cut, fill, grade	268	AC	44,266	11,863,400	
roads	55,000	SY	27.00	1,485,000	
dikes				N/A	
bonds	7.8	AC	108,750	848,300	
fences	17,500	LF	17.60	308,000	
all other	-	Lot		6,581,100	
3. Storage Tanks					\$130,230,100
foundations				N/A	
tank fabrication and erection	1	Lot		105,003,900	
heaters	1	Lot		11,626,200	
Insulation				N/A	
all other	1	Lot		13,600,000	HN.
4. Piping Systems					\$27,883,800
piping (incl. valves, fittings, etc.) oil	17,400	LF	324.00	5,637,600	80-
pumps (011)	32	Ea	190,000	6,080,000	45-
fire water	36,525	LF	90.49	2,339,800	SP
	1	Lot		7,980,000	
heat distribution	24,200	LF	241.09	5,834,400	
				•	

COST	COST (1980'\$)	\$						

н	NDTR-	80	-¦45-	-SP							1							;						
Sheet 2 of 4		SUBTOTAL			-			ng makasa		879 433 200		_ ,					007 700 008	450,004,			-		ween source	-
	į	COST			4200	7800	X/A	N / N	4/W	W/A	018 700	270 000	276,000	77,827,800	12,000	99,000		1,459,200	16.740.400	007 066	702 300	6.000	1 012 900	4444,300
	20,000,000,000,000,000,000	UKIT PRICE			7.00	13.00	77.74				82.00	00 62	75.00		100.00	66.00								
	j	TIME			LF	LF					S.	T S	J.	Lot	SF	SF		Lot	Lot	Lot	Lot	Lot	to	
	STORAGE CAPACITY:	VILLIAND			009	600					11.200	8,000			120	1500		1		-	-	1		
MODULAR COST (1980'\$)	Location: Jaiserios, W. (Concrete Tanks) S		MODULE I - STORAGE SITE FACILITIES	4. (Contd)	potable water	Banitary (incl. treatment)	inert gas	vapor recovery	all other	5. Bulldings/Structures	control/administration	maint./fire/warehouse		nearing plant	guard house	all other	6. Electrical	gubstation	distribution	emer_ency (diesel gen.)	exterior lighting	power line to site	all other	

Sheet 3 of 4

TATALAR COST (1980 \$)

0i1	PRICE COST SUBTOTAL		\$5,386,300	747,300	186,100	<u> </u>	3,686,600	\$1,616.300		5893,500	\$3,439,400	007,000	4/N	571,200		HND:	<u> </u>		- NA	SP	-
OC BBL #6	UNIT PI																				
IY: 20,000,00	TIM		i	Lot	Lot	Lot	Lot	Lot	Lot		10,1		Tot	104	104			101			
STORAGE CAPACITY: 20,000,000 BBL #6 011	QUANTITY			1	1	1	1	,1	-						4 -		-			<u> </u>	
oration: Calverton, WY (Concrete Tanks)		*ODULE I - STORAGE SITE FACILITIES (Contd)	. Instrumentation	microprocessor	control panels/displays	security	all other	8. All Other Storage Site Items	 . Real Estate	2. Dock	dock structure	dredging	loading arms	fire water and foam	control center	electrical (incl navaids)	fenders/dolphins	all other			

Sheet 4 of 4

MODULAR COST (1980 \$)

HN	SUBTOTAL	-80-	5002,886\$	SP										\$386,900	\$6,929,300						,		\$298,275,200 \$14.91/BBL
	COST			662,800	N/A	323,400	N/A	N/A .	N/A		N/A					4,174,100	1,371,800	519,200	864,200	N/A	N/A		TOTAL =
) BBL #6 011	UNIT PRICE					161,700										166.							
CAPACITY: 20,000,000 BBL	UNIT	•	٠	Lot		Ea							,	Lot		LF	Lot	Lot	Lot				
STORAGE CAPACI	OUANTITY			-		2								1		25,000	1	1	1	٠			
Location: Wiretton, NY (Concrete Tanks) SI		MODULE II - DOCK/TERMINAL FACILITIES (Contd)	3. Terminai	de-ballasting	surge tanke	purge tanks	booster pumps	control center	fire water and foam	electrical (In Dock Item)	all other	4. All Other Dock/Terminal Items	MODULE 3 - TRANSFER FACILITIES	1. Real Estate	2. Pipeline	pipe (incl cathotic protection)	heaters	custody transfer metering	launcher/receiver	cycling capability	all other	3. All Other Transfer Facility Items	TOTAL MODULES I + II + III

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MODULAR COST. (1980 \$)

											HNDTR-80-45-SP												
	SUBTOTAL		\$5,059,000	\$9,347,300		-					\$132,024,700						\$16,411,800						
011	. COST				3,642,000	1,755,000	N/A	1,826,500	228,800	1,895,000		1,909,100	110,000,000	19,315,600	N/A	800,000		1,990,500	3,726,400	2,007,300	3,990,000	4,685,600	
20,000,000 BBLS #6	UNIT PRICE				21,423	27.00		108,720	17.60				5.50					236.96	232,900	59.50		257.45	
	UMIT	•	Lot		AC	SY		AC	LF	Lot		Lot	BBL	Lot		Lot		LF	Ea	LF	Lot	LF	
STORAGE CAPACITY:	OUANTITY		1		170	65,000		16.3	13,000	1		1	20,000,000	7		1		8400	16	33,736	1	18,200	
Location: Northville, N.Y. (Steel Tanks) SI		MODULE 1 - STORAGE SITE FACILITIES	1. Real Estate	2. Site Preparation	clear, cut, fill, grade	roads	dikes	ponde	fences	g all other	3. Storage Tanks	foundations	tank fabrication and erection	heaters	insulation	all other	4. Piping Systems	piping (incl. valves, fittings, etc.) oil	pumps (011)	fire water	fire foam	heat distribution	

MODULAR COST (1980 \$)

Location: Northwill, TW (Sto

Location: Spetimelly, Tr. (Steel Tanks S1	STORAGE CAPACITY:		20,000,000 BBLS 86 011		
	VILLTA	TI::1	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES					
4. (Contd)					
potable water	009	니	7.00	4200	
sanitary (incl. treatment)	909	LF	13.00	7800	
inert gas				N/A	
vapor recovery				N/A	
all other				N/A	
5. Bulldings/Structures					\$128,063,200
control/administration	11,200	SF	82.00	918,400	0001001000
maint,/fire/warehouse	8,000	SF	72.00	576.000	
heating plant	1	Lot		126.391.800	
guard house	120	SF	100.00	12,000	
all other	2500	SF	66.00	165,000	
6. Electrical					\$6,190,900
gubstation	7	Lot		222,300	

290,800

3,897,000

Lot Lot Lot

emergency (diesel gen.)

distribution

exterior lighting power line to site

all other

302,600 166,000

1,312,200

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Cocation: Corthville, NY (Steel Tanks)	STORAGE CAPACITY:]	20,000,000 BBLS #6 011	1	
	QUANTITY	EIM	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES (Contd)					
7. Instrumentation					\$2,378,400
microprocessor	1	Lot		523,800	
control panels/displays	1	Lot		253, 500	•
security	1	Lot		519.500	
all other	-1	Lot		1 087 600	·
8. All Other Storage Site Items	1 ,	Lot			\$1,024,000
"ODULE 2 - DOCK/TERMINAL FACILITIES				,	
Le Real Estate					
2 Dock					(In Module I)
		- +		,	N/A
dock structure					
dredging					
loading arms					
fire water and foam					
control center					•
electrical (incl navaids)	-				нì
fenders/dolphins					IDTR
all other					-80-
					-45 - SP
				•	

MODULAR COST (1980 \$)					Sheet 4 of 4 MH
Location: Norm TILL, IN (Sterlinghe) ST	STORAGE CAPACITY:		20,000,000 BELS ' 6,011	011	TR-
	CCANTITY	TI	UNIT PRICE	COST	SUBTOTAL 08
MODULE II - DUCK/TERMINAL FACILITIES (Contd)		•	-		5-S
3. Terminal					\$224,100
de-ballasting (In Module I)					
surge tanks				N/A	
purge tanks	7	Lot		146,300	
booster pumps				N/A	
control center				N/A	
fire water and foam				N/A	
electrical	7	Lot		77,800	
all other				N/A	
4. All Other Dock/Terminal Items					N/A
MODULE 3 - TRANSFER FACILITIES					
1. Real Estate					(In Module I)
2. Pipeline					1,676,000
pipe (incl cathotic protection)	1200	LF	190.08	228.100	
heaters Tape	1	Lot		64,500	
custody transfer metering	T	Ļot	_	519,200	
launcher/receiver	1	Lot		864,200	
cycling capability				N/A	
all other				N/A	
3. All Other Transfer Facility Items				N/A	
TOTAL MODULES I + II + III $_{\rm II^-}$ \$224,100 $_{\rm III-\$1.676,000}$				TOTAL -	\$302,399,400 \$15.12/BBL

Location: Northville, NY (Concrete Tanks) STORAG

STORAGE CAPACITY: 20,000,000 BBLS #6 011

Sheet 1 of 4

NOLUNITIES III (COUCLECE TRING)	STORES CALACITY				
	OUANTITY	LIM	UNIT PRICE	. COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES					
1. Real Estate	П	Lot			\$5,109,000
2. Site Preparation					\$20,876,300
clear, cut, fill, grade	170	AC	38,488	15,043,000	
roads	84,000	SY	27.00	2,268,000	
dikes				N/A	
ponde	16.8	AC	81,637	1,371,500	
fences	13,000	LF	17.60	228,800	
all other	1	Lot		1,965,000	
3, Storage Tanks					\$115,626,300
foundations (In Site Preparation					
tank fabrication and erection	20,000,000	BBL	4.42	88,400,000	
heaters		Lot		11,626,300	
insulation				N/A	
all other (Dewatering & Testing)	1	Lot		15,600,000	
4. Piping Systems					\$21,625,500
piping (incl. valves, fittings, etc.) oil	12,750	LF	362.73	4,624,800	HND'
pumps (oil)	32	Па.	32,478	1,039,300	ΓR-8
fire water	32,576	LF	60.65	1,975,700	30~4
fire foam	1	Lot		7,980,000	5 - S
heat distribution	22,800	LE	262.88	5,993,700	P
	_				

Sheet 2 of 4

(1980' \$)	
COST	;;
MODULAR	Location:

Location: Jording No. (Concrete Tanks)	STORAGE CAPACITY:		20,000,000 BRLS #6 011	-	
	ALLIEVED	TITA	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES	The state of the s				
4. (Contd)					
potable water	009	LF	7.00	420C	
sanitary (incl. treatment)	009	LF	13.00	7800	
inert gas				N/A	
vapor recovery				N/A	
all other				N/A	
5, Buildings/Structures					687.075
S control/administration	11,200	SF	82.00	007 810	344,37,000
maint./fire/warehouse	8,000	SF	72.00	576 000	
heating plant	1	Lot		200,000	
guard house	120	SF	100.00	12 000	
.all other	2500	SF	66.00	165.000	
6, Electrical					
substation	1	Lot		222 300	\$13,781,200
distribution	1	Lot		1 1 7 1 100	
emergency (diesel gen.)	1	Lot		290 800	,
exterior lighting	1	Lot		302,600	
power line to site	1	Lot		166,000	-1
all other	1	Lot		1.634.000	

Sheet 3 of 4		SUBTOTAL	-	\$3,677,500		,			\$1,510,700			A/N	W/W					н	NDTR	t-80	-45- <u>s</u>	SP
	,	COST			747 300	186 100	519 500	2,224,600														`
	20,000,000 BBLS #6 011	UNIT PRICE																				
	ITY: 20,000,00	TIMO			Lot	Lot	Lot	Lot	Lot													
~	STORAGE CAPACITY:	QUANTITY			r i	H	F	1	. 1												· ·	
CODULAR COST (1980 \$)	.ocation: Northville, NY (Concrete Tanks)		MODULE I - STORAGE SITE FACILITIES (Contd)	7. Instrumentation	microprocessor	control panels/displays	security	all other	8. All Other Storage Site Items	00ULE 2 - DOCK/TERMINAL FACILITIES	l. Real Estate (In Module I)	2. Dack	dock structure	dredging	loading arms	fire water and foam	control center	electrical (incl navaids)	fenders/dolphins	all other		•

Sheet 4 of 4

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MODUL	

HN	OTR- 	80-	45-	SP {							•	į		į									ŀ	
	SUBTOTAL	•	\$261,900			,						N/A		\$1,993,600							,		\$269,437,000 \$13.47/BBL	
	COST				N/A	161,700	N/A	N/A	N/A	100,200	N/A					299,200	64,500	519,200	1,110,700	N/A	N/A	N/A	rotal =	
20,000,000 BBLS #6 011	UNIT PRICE															249.30								
	TIMI	•				Lot				Lot			,			LF	Lot	Lot	Lot					-
STORAGE CAPACITY:	OUARTITY					1				1						1200	1	1	1					
Location: Northville, NY (concrete Tanks) ST		MODULE II - DOCK/TERMINAL FACILITIES (Contd)	3. Terminal	de-ballasting (In Module I)	surge tanks	purge tanks	booster pumps	control center	fire water and foam	electrical	all other	4. All Other Dock/Terminal Items	MODULE 3 - TRANSFER FACILITIES	1. Real Estate (In Module I)	2. Pipeline	pipe (incl cathotic protection)	heaters tape	custody transfer metering	launcher/receiver	cycling capability	all other	3. All Other Transfer Facility Items	TOTAL MODULES I + II + III $\begin{array}{cccccccccccccccccccccccccccccccccccc$	•

MODULAR COST. (1980 \$)

Sheet 1 of 4

Location: Portland, Maine (Rock Mine) ST	STORAGE CAPACITY:	TY: 20,000,000 BBLS	9 #	011	
	OUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES		,			,
l. Real Estate	1	Lot		4,360,000	\$4,360,000
Site Preparation		,			362,400
clear, cut, fill, grade	7	Acres	10,685	74,800	
roads	3000	XS	21.00	63,000	
dikes				N/A	
spuod				N/A	
fences	3000	LF	14.00	42,000	
all other	1	Lot		182,600	
Storage Tanks					\$160,026,000
foundations	. /			N/A	
tank fabrication and-erection.	20,000,000	BBL	6.9509	139,018,000	
heaters	1	Lot		19,508,000	
insulation				N/A	
all other	1	Lot		1,500,000	
Piping Systems					\$5,480,800
piping (incl. valves, fittings, etc.) oil	10,240	LF	281.75	2,885,100	
pumps (oil)	13	F3	116,800	1,518,400	
fire water) Combined System	1	Lot		1,072,200	
heat distribution (In Tank Heating)					
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ļ	Location: Portland, Maine (Rock Hine)	STORAGE CAPACITY:		20,000,000 BBLS # 6 0	0i1	
		OUANTITY	ULLT	UNIT PRICE	COST	SUBTOTAL
	MODULE I - STORAGE SITE FACILITIES					
	4. (Contd)		,			
	potable water	009	LF	5.33	3200	
	sanitary (incl. treatment)	1	Lot		1900	
	inert gas				N/A	
	vapor recovery				N/A ·	
	all other				N/A	
	5. Buildings/Structures					\$155,302,400
10	control/administration	11,200	SF	63.00	705,600	
4	maint,/fire/warehouse	8000	SF	55.00	440,000	
	heating plant	r-4	Lot		154,072,500	
	guard house	120	SF	77.00	6,300	.
	all other	1500	SF	50.00	75,000	
	6. Electrical					\$7,350,000
	gubstation	-	Lot		1,400,900	
	distribution	1	Lot		5,164,100	
	emergency (diesel gen.)	1	Lot		223,400	,
	exterior lighting	1	Lot		23,400	
	power line to site	1	Lot		3,800	
	all other	-	Lot		534,400	
			-		•	

YODULAR COST (1980 \$)	,	-			Sheet 3 of 4
cation: Portland, Maine (Rock Mine)	STORAGE CAPACITY:		20,000,000 BBLS #6 011		
	QUANTITY	LTMA	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES (Contd)					
7. Instrumentation					\$4,512.600
microprocessor	1	Lot		798 300	
control panels/displays		Lot		190,800	
security	7	Lot		96.500	,
all other	1	Lot		3,927,000	
8. All Other Storage Site Items	, 1	Lot		478 800	\$428,800
00ULE 2 - DOCK/TERMINAL FACILITIES	· 		1. ~ -		
l. Real Estate					
2. Dock			٠.	,	N/A
dock structure	,				\$656,600
dredeine	7	Lot		250,000	
onto other				N/A	
files	1	Lot		150,000	
iire water and foam				N/A	
control center				A/N	
electrical (incl navaids)	1	Lot		256 600	н
fenders/dolphins				200,000	NDTI
all other				N/A	₹~80
				N/A	-45
				ı	-SP
	_		_		

"ODULAR COST (1980 \$)

Hì	DTR	-80-	-45-	SP	•																		7. 7.	
	SUBTOTAL		\$1,293,900			,								\$298,000	\$5,670,400						,	N/A	\$345,741,900 \$17.29/BBL	_
	COST			537,900	N/A	756,000		N/A	N/A		N/A	N/A		298,000		3,977,000	578,000	215.800	899,600	N/A	N/A		TOTAL -	
20,000,000 BBLS #6 011	UNIT PRICE					378,000										189.38			449,800					· ,
	TIME	•		Lot		Бd							,	Lot		LF	Lot	Lot	Ea		·			-
STORAGE CAPACITY:	OUANTITY			1		2								1		21,000	1	1	2					
Location: Portland, Maine (Rock Mine) S'		MODULE II - DOCK/TERMINAL FACILITIES (Contd)	3. Terminal	de-ballasting	surge tanks	purge tanks	booster pumps (In Module I)	control center	fire water and foam	electrical (In Dock Item)	all other	4. All Other Dock/Terminal Items	MODULE 3 - TRANSFER FACILITIES	1. Real Estate	2. Pipeline	pipe (incl cathotic protection)	heaters - Tape	custody transfer metering	launcher/receiver	cycling capability	all other	3. All Other Transfer Facility Items	33	III -\$ 5,968,400

Location: West Deptford, II, N.J. (Steel Tanks) STORAGE CAPACITY: 20,000,000 BBLS #6 011

Sheet 1 of 4

	U XTITNOO	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES					
1. Real Estate	1	Lot			\$5,903,000
2. Site Preparation					\$9,861,700
clear, cut, fill, grade	196	AC	19,096	3,742,800	
roads	60,000	SY	24.00	1,440,000	
dikes				N/A	
ponds	32.1	AC	79,065	2,538,000	
fences	17,000	LF	15.50	263,500	
all other	1	Lot		1,877,400	
3. Storage Tanks					\$125,502,200
foundations	1	Lot		10,323,200	
tank fabrication and erection	20,000,000	BBL	4.87	97,400,000	
heaters	П	Lot		17,079,000	
ingulation				N/A	
all other	7	Lot		700,000	
4. Piping Systems					\$15,136,400
piping (incl. valves, fittings, etc.) oil	10,000	LF	216.40	2,164,000	HND'
pumps (oil)	16	Ea	239,531	3,832,500	TR-
fire water	33,416	LF	41.55	1,388,500	80-4
fire foam	П	Lot		3,528,000	45-S
heat distribution	17,700	LF	233.43	4,131,700	P
			_		

Sheet 2 of 4

	MUDULAR CUST (1980 S)					Sheet 2 of 4 H
1	Location: W. Deptford, II, N.J. (Steel Tanks) S'	STORAGE CAPACITY:	: 20,000,000 BBLS	00 BBLS #6 011	1	NDTR
		OUANTITY	TITT	UNIT PRICE	COST	SUBTOTAL 8
	MODULE I - STORAGE SITE FACILITIES					45
	4. (Contd)	···				-SP
	potable water	5200	LF	6.10	31,700	
	ganitary (incl. treatment)	5200	LF	11.54	000,09	
	inert gas				N/A	
	vapor recovery				N/A.	
	all other				N/A	
ļ	5. Buildings/Structures					\$111,996,600
108	control/administration	11,200	SF	73.00	817,600	
	maint./fire/warehouse	8,000	SF	64.00	512,000	
	heating plant	1	Lot		110.511.400	
	guard house	120	SF	88.00	10,600	
-	all other	2500	SF	58.00	145,000	
	6. Electrical					\$7,789,000
	gubstation	1	Lot		1,004,600	
	distribution	1	Lot		4,949,500	
	emergency (diesel gen.)	1	Lot		257,100	
	exterior lighting	1	Lot		299,800	
	power line to site	1	Lot		4,300	
	all other		Lot		1,273,700	
				_	=	

			İ						:)						HND	TR-	80-4	45-SP	
	SUBTOIAL		\$1,744,300			d		\$1,036,600		\$929,000	\$5,305,300				-						
1	COST			463,200	224,100	459,400	597,600		·		,	1,272,200	2,267,500	505,200		53,000	225,200	982.200	N/A		
20,000,000 BBLS #6 011	UNIT PRICE					٠												·			
	TI:ID			Lot	Lot	Lot	Lot	Lot		Lot		Lot	Lot	Lot		Lot	Lot	Lot			
STORAGE CAPACITY:	QUANTITY			1		1	1	, 1		1		,	1	1		1	1	H		·	
Sucation: W. Deptford, II, N.J. (Steel Tanks) S.		MODULE I - STORAGE SITE FACILITIES (Contd)	7. Instrumentation	microprocessor	control panels/displays	security	all other	8. All Other Storage Site Items	02015 2 - DOCK/TERMINAL FACILITIES	1. Real Estate	2 . Dack	dock structure	dredging	loading arms	fire water and foam (In Mod. I)	control center	electrical (incl navaids)	fenders/dolphins	all other		

20,000,000 BBLS #6 0il Location: West Deptford, II, N.J. (Steel Tanks) STORAGE CAPACITY:

Sheet 4 of 4

HNDTR-80-45-SP \$1,444,000 \$286,852,100 \$14.34/BBL \$204,000 N/A SUBTOTAL 47,500 TOTAL -173,200 459,100 764,200 204,000 N/A N/A N/A N/A N/A N/AN/A N/A COST UNIT PRICE 173.20 UNIT Lot Pot Lot Lot Ľ OUANTITY 1000 6,438,300 - \$278,969,800 MODULE II - DOCK/TERMINAL FACILITIES (Contd) All Other Transfer Facility Items pipe (incl cathotic protection) electrical (with Dock Elect.) All Other Dock/Terminal Items de-ballasting -In Module I-MODULE 3 - TRANSFER FACILITIES custody transfer metering Real Estate (In Module I) TOTAL MODULES I + II + III fire water and foam cycling capability launcher/receiver control center booster pumps heaters Tape purge tanks surge tanks all other all other Pipeline Terminal

110

Location: West Deptford, N.H. IV (Steel Tanks) STORAGE CAPACITY: 20,000,000 BBLS #6 011

Sheet 1 of 4

	SUBTOTAL	-	\$5,828,000	\$8,269,200							\$117,839,800						\$15,435,600	HND?	ΓR − {	30-4	5 - S	P	
	. COST				2,843,000	1,464,000	N/A .	1,617,000	217,000	2,128.200		2,660,800	97,400,000	17,079,000	N/A	700,000		1,711,900	5,714,100	1,772,400	3,528,000	2,617,400	•
TTO D# CTEE O	UNIT PRICE				14,731	24.00		100,435	15.50				4.87					234.50	357,131	52.32	220,499	251.67	
20,000,000	UNIT	•	Lot		AC	SY		AC	LF	Lot		Lot	BBL	Lot		Lot		LF	Ea	LF	Ea	LF	
STORAGE CALACITIC	QUANTITY		1		193	61,000		16.1	14,000	1		1	20,000,000	1		1		7300	16	33,876	16	10,400	
west Deptiord, N.n. IV (Steel lanks) 31		MODULE 1 - STORAGE SITE FACILITIES	1. Real Estate	2. Site Preparation	clear, cut, fill, grade	roads	dikes	ponds	fences	all other	3. Storage Tanks	foundations	tank fabrication and erection	heaters	insulation	all other	4. Piping Systems	piping (incl. valves, fittings, etc.) oil	pumps (oil)	fire water	fire foam	heat distribution	

MODULAR COST (1980'S)					Sheet 2 of 4
Location: W. Deptford, N.J. IV (Steel Tanks)	STORAGE CAPACITY:	- 1	20,000,000 BBLS #6 011		
	VTITAL	LIIL	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES					
4. (Contd)					
potable water	5200	LF	6.10	31,700	
ganitary (incl. treatment)	5200	LF	11.55	60,100	
inert gas				N/A	
vapor recovery				N/A	
all other				N/A	-
5. Bulldings/Structures					\$108,019,000
control/administration	11,200	SF	73.00	817.600	
maint./fire/warehouse	8000	SF	64.00	512,000	
heating plant	Г	Lot		106,533,800	
guard house	120	SF	88.00	10.600	
all other	2500	SF	58.00	145,000	
6. Electrical					\$8,771,700
substation	1	Lot		1,004,600	
distribution	1	Lọt		6,339,800	
emergincy (diesel gen.)	П	Lot		257,100	
exterior lighting	1	Lot		82,300	
power line to site	1	Lot		4,300	
all other	F-1	Lot		1,083,600	
				-	
	•	_	-		

40DULAR COST (1980 \$)	~		()		Sheet 3 of 4
Location: W. Deptford, N.J, IV (Steel Tanks) S	STORAGE CAPACITY:	20,000,000	į	F o C	C. WILDING
	QUANTITY	T T T T T T T T T T T T T T T T T T T	UIII PRICE	4655	
MODULE I - STORAGE SITE FACILITIES (Contd)					. 000 106 63
7. Instrumentation	-				37,201,300
1		Lot		463,100	
control panels/displays	-	Lot	-	224,200	
security	7	Lot		459,300	,
all other	F-4	Lot		1,055,300	
a Ail Orber Storage Site Items	1	Lot			\$980,100
100000000000000000000000000000000000000					
000012 2 - DOCK/TERMINAL FACILITIES	-		-		
מן מין מין מין מין מין מין מין מין מין מ	7	Lot			\$929,000
			4	,	\$5,326,000
	1	Lot		1,272,200	
dredging	- F	Lot		2,267,500	
loading arms	1	Lot		505,200	· ;
fire water and foam (In Module I)					
control center	1	Lot		53,000	1
electrical (incl navaids)	1	Lot		245,900	- · · · · ·
fenders/dolphins	1	Lot		982,200	1
all other		_		N/A	- 1
		_			
		-	,		•

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	SUBTOTAL		\$204,000			,						N/A		\$245,000	\$3,829,600						,		\$277,878,900 \$13.89/BBL	
011	COST				N/A	204,000	N/A	N/A .	N/A		N/A			245,000		1,964,900	641,400	459,100	764,200	N/A	N/A		TOTAL =	٠
20,000,000 BBLS #6 0	UNIT PRICE					102,000.										145.55								
i	UNIT	•				EA							,	Lot		LF	Lot	Lot	Lot					-
STORAGE CAPACITY:	OUANTITY					2								П		13,500	1	1	1	·				
Location: W. Deptford, N.J., IV (Steel Tanks) ST		MODULE II - DOCK/TERMINAL FACILITIES (Contd)	3. Terminal	de-ballasting (In Module I)	surge tanks	purge tanks	booster pumps	control center	fire water and foam	electrical w/Docks	all other	4. All Other Dock/Terminal Items	MODULE 3 - TRANSFER FACILITIES	1. Real Estate	2. Pipeline	pipe (incl cathotic protection)	heaters Tape	custody transfer metering	launcher/receiver	cycling capability	all other	3. All Other Transfer Facility Items	TOTAL MODULES I + II + III	

MODULAR COST. (1980 \$)

Sheet 1 of 4

					10 1 11111
Location: Harpswell, Maine (Concrete Tanks)	STORAGE CAPACITY: 10,000,000 BBLS #6 011	TY: 10,000,	000 BBLS #6 0	11	
	QUANTITY	UNIT	UNIT PRICE	. COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES		,			
1. Real Estate	1	Lot			\$5,154,000
2. Site Preparation					\$12,113,800
clear, cut, fill, grade	170	Acres	40,752	6,927,800	
roads	46,000	SY	21.00	966,000	
dikes				N/A	
ponds	20.7	Acres	80,918	1,675,000	
fences	12,000	LF	13.50	162,000	
all other	1	Lot		2,387,000	
3. Storage Tanks					\$52 952 300

ororage rains					\$22,932,300
foundations	,			N/A	
tank fabrication and erection	1	Lot		42,385,400	
heaters	1	Lot		4,466,900	
insulation				N/A	
all other	1	Lot		6,100,000	
Piping Systems					\$9,942,900 H
piping (incl. valves, fittings, etc.) oil	0029	LF	273.62	1,833,300	NDT
pumps (oil)	16	Ea	43,044	688, 700	R~8
fire water	29,926	LF	46.50	1,391,500	0-45
fire foam	1	Lot		3.066.000	5-SP
heat distribution	17,200	H	171.40	2,948,000	

MODULAR COST (1980'\$)	(1986′\$)					Sheet 2 of 4	H
Location: Ha	Location: Harpswell, Maine (Concrete Tanks)	STORAGE CAPACITY:		10,000,000 BBLS #6 011	11		IN DTF
		YTITKVOO	TIMO	UNIT PRICE	COST	SUBTOTAL	₹-80
MODULE I - ST	MODULE I - STORAGE SITE FACILITIES)-45
4. (Contd)			·				5-SP
potable water	water	1000	LF	5.30	5300		
Banitar	Banitary (incl. treatment)	1000	LF	10.10	10.100		
inert gas	23.8				N/A		
Vapor	vapor recovery				N/A		
all other	er				N/A		
5. Buildings	Buildings/Structures					\$33 305 000	
Contro	control/administration	11,200	SF	64.00	716.800	000,000,000	
	maint./fire/warehouse	8,000	SF	56.00	000 877		
heating plant	plant	1	Lot		32,006,100		
guard house	louse	120	SF	76.00	001 0		
all other	er	1500	5		00162		
6. Electrical	1				125,000-	201 101 13	
gubstation	ion	1	101		000	44,757,400	ı
distribution	ution	1	Lot		3 997, 600		
emerger	emergency (diesel gen.)	1	101		000,1000		
			102		7.73.400		

108,400

Lot Lot

power line to site exterior lighting

all other

1,008,300

Sheet 3 of 4		SUBTOTAL		\$1,826,700			•		\$1,064,600		7/10	N/A	N/A		•			_			
		COST			401,600	194,800	399.200	831,100		;		,									
	00 BRIS #6 011	UNIT PRICE																			
	STORAGE CAPACITY: 10.000.000 BRIS	ווונה (Lot	Lot	Lot	Lot	Lot												
	STORAGE CAPAC	QUANTITY	- come and May a		1	. 1		1	, 1												
**ODULAR COST (1980 \$)	Cocation: Harpswell, Maine (Concrete)		MODULE I - STORAGE SITE FACILITIES (Contd)	7. Instrumentation	microprocessor	control panels/displays	security	all other	8, All Other Storage Site Items	OUULE 2 - DOCK/TERMINAL FACILITIES	1. Real Estate	2. Dock	dock structure	dredging	loading arms	fire water and foam	control center	electrical (incl navaids)	fenders/dolphins	all other	

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COUNTIEST COUNTIEST COUNTIEST						
VLE II - DOCK/TERMINAL FACILITIES (Contd) N/A		OUANTETY	UNIT	UNIT PRICE	COST	SUBTOTAL
Surge tanks			•			
Surge tanks N/A						\$106,700
surge tanks 2 Ea 48,600 97,200 booster pumps 2 Ea 48,600 97,200 booster pumps N/A N/A N/A N/A electrical 1 Lot 9,500 all other Dock/Terminal Items 1 Lot 9,500 all other Dock/Terminal Items 1 Lot 66,000 ULE 3 - TRANSFER FACILITIES 1 Lot 523,000 Heal Estate 1 Lot 66,000 custody transfer metering 1 Lot 530,000 hearbeigh tape 1 Lot 530,500 custody transfer metering 1 Lot 530,500 custody transfer Facility Items 1 Lot 530,500 Laul other 1 Lot 1 Line 1 Lot					N/A	
Purge tanks 2	surge tanke				N/A	
booster pumps control center fire water and foam electrical all other pipe (Incl cathotic protection) launcher facility Items all other All Other Transfer Facility Items L MODULES I + II + III	purge tanks	2	Ea	78,600	97,200	,
Control center	booster pumps				N/A	
Fire water and foam	control center				N/A	
## 10 ther all other all other bock/Terminal Items ### All Other Dock/Terminal Items ### All Other Transfer metering ### All Other Transfer Facility Items ### All Other Transfer Faci	fire water and foam				N/A	
### ### ##############################	electrical	1	Lot		9,500	
Note Dock/Terminal Items Note Dock/Terminal Items Note Dock/Terminal Items Note Dock	all other				N/A	
NLE 3 - TRANSFER FACILITIES Lot Lot Real Estate 1 Lot 523,000 Pipe (incl cathotic protection) 2400 LF 217.92 523,000 heateFask tape 1 Lot 66,000 custody transfer metering 1 Lot 399,000 launcher/receiver 1 Lot 530,500 cycling capability 1 Lot 530,500 cycling capability 1 N/A all other All Other Transfer Facility Items N/A All Other Transfer Facility Items 106,700 TOTAL - L MODULES I + II + III II II II II II II II II II	., All Other Dock/Terminal Items					
Real Estate 1 Lot 523,000 Pipeline 1 Lot 66,000 heatedrax tape 1 Lot 66,000 custody transfer metering 1 Lot 530,500 launcher/receiver 1 Lot 530,500 cycling capability 31 other N/A All Other Transfer Facility Items N/A All Other Transfer Facility Items 106,700 III - 1,559,000 111 - 1,559,000	NODULE 3 - TRANSFER FACILITIES		,			
Pipeline 2400 LF 217.92 523,000 heateris tape 1 Lot 66,000 custody transfer metering 1 Lot 399,000 launcher/receiver 1 Lot 530,500 cycling capability N/A all other Transfer Facility Items N/A All Other Transfer Facility Items 1 N/A TAL MODULES I + II II II II II II II	l, Real Estate	П	Lot			\$40,500
orotection) 2400 LF 217.92 523,000 exing 1 Lot 66,000 exing 1 Lot 399,000 1 Lot 530,500 11ty Items N/A 11- 121,096,700 N/A 11- 1559,000 TOTAL - 111- 1,559,000	- 1					\$1,518,500
ering 1 Lot 66,000 1 Lot 399,000 1 Lot 530,500 11ty Items N/A 11 106,700 TOTAL = 111 1,559,000 TOTAL =	pipe (incl cathotic protection)	2400	LF	217.92	523,000	
ering 1 Lot 399,000 1 Lot 530,500 11ty Items N/A 11 - 121,096,700 N/A III - 1,559,000 TOTAL -	- 1	1	Lot		99,000	
1 Lot 530,500 111ty Items 1 Lot 530,500 N/A 111ty Items 1 Lot 530,500 N/A 1 TOTAL =	custody transfer metering	1	Lot		399,000	
111ty Items 1	launcher/receiver	1	Lot		530,500	
111ty Items I - 121,096,700 II - 106,700 III - 1,559,000	cycling capability				N/A	
111ty Items I- 121,096,700 II- 106,700 III- 1,559,000	all other				N/A	,
I- 121,096,700 II- 1,559,000	- 1					
	-11 -111				TOTAL -	\$122,762,400 \$12.28/BBL

Location: Harpswell, Maine (Steel Tanks) S	STORAGE CAPACITY:	TY: 10,000,000	BBLS #6	011	
	QUANTITY	TIMA	UNIT PRICE	COST	SUBTOTAL
MODULE 1 - STORAGE SITE FACILITIES		•			
1. Real Estate		Lot			\$3,183,000
2. Site Preparation					\$5,040,600
clear, cut, fill, grade	105	AC	15,115	1,587,100	
roads	27,000	SY	21.00	567,000	
dikes				N/A	
8 puod	17.9	AC	81,285	1,455,000	
fences	10,000	LF	13.50	135,000	
all other	1	Lot		1,256,500	
3. Storage Tanks					\$55,648,200
foundations	1	Lot		2,005,100	
tank fabrication and erection	10,008,000	BBL	4.40	44,035,200	
heaters	1	Lot		9,067,900	
insulation				N/A	
all other	1	Lot		540,000	
4. Piping Systems					\$7,429,600
piping (incl. valves, fittings, etc.) oil	4100	<u>47</u>	475.84	1,950,900	INDT
pumps (011)	12	E3	70,083	841,680	K-8
fire water	25,726	LF	48.13	1,238,200	U- 4:
fire foam	1	Lot		2,035,600)-St
heat distribution	5600	1	240.80	1,348,500	
				•	

\$
(1980'
COST
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Location: Harpswell, Maine (Steel Tanks)	STORAGE CAPACITY:		10,000,000 BBLS #6 011	-	
	QUANTITY	UNIT	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES					
4. (Contd)					
potable water	1000	LF	5.30	5,300	
sanitary (incl. treatment)	1000	LF	10.10	10,100	
inert gas				N/A	
vapor recovery				N/A .	
all other				N/A	
5. Buildings/Structures					\$52,187,200
Control/administration	11,200	SF	64.00	716.800	
maint,/fire/warehouse	8,000	SF	56.00	448,000	
heating plant	1	Lot		50 888 300	
guard house	120	SF	76.00	9,100	
all other	2500	SF	50.00	125,000	
6. Electrical					008.440.83
gubstation	1	Lot		400,000	
distribution	1	Lot		2,172,800	
emergency (dlesel gen.)	1	Lot		132,900	
exterior lighting		Lot		144.700	
power line to site	1	Lot		2,700	
all other	1	Lot		211,700	
				•	
	_				

5-	SI	
	5-	5-S1

Sheet 3 of 4 7: 10,000,000 BELS #6 011	UNIT UNIT PRICE COST SUBTOTAL		\$1,050,600	Lot 182,900	Lot 114,700	Lot 318,600	Lot 434,400	Lot \$776,200		N/A	N/A						HND	rr-8	80-4	5-SP	_
, STORAGE CAPACITY: 10,000,000	QUANTITY		~	-	1		1					,								·	
MODULAR COST (1980 \$)		MODULE I - STORAGE SITE FACILITIES (Contd.)	7. Instrumentation	t	control panels/displays	security	all other	8. All Other Storage Site Items	::00ULE 2 - DOCK/TERMINAL FACILITIES	l. Real Estate	2. Dock	dock structure	dredging	loading arms	fire water and foam	control center	electrical (incl navaids)	fenders/dolphins	all other	,	

STORAGE CAPACITY: 10,000,000 B3LL 6 011	STATES SUBTOTAL BRIGH COST SUBTOTAL BY	TR-8	\$106,700	\$ 5 -\$	N/A	2 Ea 48,600 97,200		N/A .	N/A	1 Lot 9,500	N/A		,	1 Lot \$40,500	\$1,736,000	2400 LF 221.58 531,800	1 Lot 210,900		1 Lot 530,300	N/A	N/A		-
Location: Harpswell, Maine (Steel Tanks)		MODULE II - DOCK/TERMINAL FACILITIES (Contd)	3. Terminal	de-ballasting	surge tanke	purge tanks	booster pumps	control center	fire water and foam	electrical	all other	6. All Other Dock/Terminal Items	MODULE 3 - TRANSFER FACILITIES	1. Real Estate	2. Pipeline	pipe (incl cathotic protection)	heaters	custody transfer metering	launcher/receiver	cycling capability	all other	3. All Other Transfer Facility Items	

Location: Brooksville, Maine (Rock Mine) STORAGE CAPACITY:

20,000,000 BBLS #6 0il

Sheet 1 of 4

\$5,225,000 \$1,992,800 \$160,026,100 SUBTOTAL 1,424,000 168,000 74,200 326,600 N/A N/A COST UNIT PRICE 8,476 14.00 21.00 UNIT Lot Lot AC LF SY OUANTITY 168 5300 8000 MODULE 1 - STORAGE SITE FACILITIES clear, cut, fill, grade Site Preparation Storage Tanks foundations Real Estate all other fences roads dikes ponds e,

\$4,990,300 2,885,200 1,027,800 1,500,000 1,072,200 N/A 281.75 Lot Lot rot C 1 10,240 piping (incl. valves, fittings, etc.) oil Piping Systems pumps (011) insulation fire water fire foam all other

(In Tank Heating)

heat distribution

139,018,100

Lot

tank fabrication and erection

heaters

N/A

HNDTR-80-45-SP

Sheet 2 of 4

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Sheet

ייכמנוסח: Brooksville, Maine (Mine)	STORAGE CAPACITY:		20,000,000 BBLS #6 011		
	QUANTITY	UNI	UNIT PRICE	COST	SUBTOTAL
MODULE I - STORAGE SITE FACILITIES (Contd)					
7. Instrumentation					\$4,512,400
nicroprocessor	7	Lot		298 300	
control panels/displays	1	Lot		100 000	
security	T	Lot		nna nn	
all other	1	Lot		30,400	•
8. All Other Storage Site Items	. 1	Lor		006,926,6	000 8678
"ODULE 2 - DOCK/TERMINAL FACILITIES				,	
1. Real Estate	1	Lot			2929 000
2. Dack				,	0006/17/4
dock structure	,	Lot		115 000	97,120,780
dredging	-	101		000 (777 (7	
loading arms		10+	7	4,3/1,500	
fire water and foam - In Module I -		3		438,000	
control center		101		11 000	
electrical (incl navalds)	-	101		97.	74
fenders/dolphins		lot		00/ 165	
all other				N/A	
·					-45-SP
				•	

HNDTR-80-45-SP

MODULAR COST (1980 \$) Location: Brooksville, Maine (Mine)	STORAGE CAPACITY:		20,000,000 BBLS #6 PE	ŕ	Sheet 4 of 4
	ATTEMO			1800	SUBIOIAL
MODULE II - DOCK/TERMINAL FACILITIES (Contd)	•				-
3. Terminal	,				\$717,900
de-ballasting	1	Lot		537,900	
surge tanke	_			N/A	
purge tanks	2	Ea	90,000	180,000	
booster pumps (In Module I)					
control center				N/A	
fire water and foam				N/A	
electrical (In Dock Item)					
all other				N/A	
95 4. All Other Dock/Terminal Items					
MODULE 3 - TRANSFER FACILITIES		,			
l. Real Estate	1	Lot			\$65,500
2. Pipeline					\$1,928,900
pipe (incl cathotic protection)	3600	LF	198.48	714,500	
heaters	1	Lot		99,100	
custody transfer metering	I	Lot		215,800	
launcher/receiver	1	Lot		899,500	
cycling capability				N/A	
all other				N/A	,
3. All Other Transfer Facility Items					!
TOTAL MODULES I + II + III I - 339,775,600				TOTAL -	\$350,444,600 \$17.52/BBL
ı		-	1		

CHAPTER 3

LIFE CYCLE COST, ECONOMIC ANALYSIS

3-1. INTRODUCTION

This chapter pertains to the life cycle cost economic analysis conducted to identify, and quantify, unique economic advantages that may be attributable to the candidate sites. The analyses include investment, operations, and maintenance costs.

3-2. ASSUMPTIONS

a. General Assumptions

- (1) The life cycle consists of 20 years of storage after the initial fill.
- (2) The candidate No. 6 fuel oil sites with associated options are in Table 3-1.
- (3) The costs are displayed in constant first quarter CY80 dollars, escalated or inflated dollars, and discounted or present worth dollars. Escalation and discount rates of 10 percent were used for comparative purposes only.
- (4) The product cost of initial fill is assumed to be the same for each comparable site and, therefore, does not affect the analysis.
- (5) Investment costs are composed of real estate, environmental impact statement, site survey, core borings, design and construction costs.

b. Drawdown and Refill

East Coast No. 6 fuel oil distribution is made to the east coast users by waterborne means. For this analysis, it is assumed that No. 6 fuel oil is distributed to the users during drawdown and will be replaced by the recipients when conditions return to normal. In effect No. 6 fuel oil is traded rather than sold. A drawdown is assumed to occur at 5-year intervals.

c. Operations and Maintenance

(1) For operational and maintenance purposes, a No. 6 fuel oil site is to be operated and maintained on a self-supporting basis.

Where existing security or fire protection facilities and personnel are available to support a site, such resources are considered in the analyses. Local electrical power rates were also considered. The cost of spare parts was assumed to be seven percent of the construction costs of the active functional equipment of each site.

(2) For all options studied, the basic manpower level was determined for the standby mode of operation and maintenance. Any additional manpower required for embargo response was assumed to be satisfied through the use of overtime.

TABLE 3-1

	STORAGE	CAPACITY	TAN	KS	MINE	(M)
SITE	10 MMB	20 MMB	Steel (ST)	Concrete (CC)		
Portsmouth, VA	Х		Х	Х		
Canaveral, FL	X		Х			
Calverton, NY	X	Х		X		
Portland, ME		X			Х	
Northville, NY		Х	Х	X		
West Deptford II, NJ		Х	X			
Harpswell, ME	X		X	Х		
Brooksville, ME		X			Х	
West Deptford IV, NJ		Х		X		

d. Investment and Salvage

- (1) Construction costs used are those shown for each site in Volume II, Chapter 2. Real estate costs are also shown for the various sites.
- (2) Design costs were based on six percent of the construction cost. The EIS, site survey, core borings, etc., were estimated to be \$689,134.
- (3) Twenty years of operational site usage is not expected to appreciably degrade the site's functional use. Its salvage value is primarily determined by the demand for such a site at the time of salvage. Thus, no salvage value is considered for any of the sites.

3-3. DISCUSSION

a. Life Cycle Profile

A typical life cycle mission profile for a No. 6 fuel oil site is depicted in **Table 3-2.** Site operation begins in year seven with an embargo drawdown anticipated every fifth year. Upon completion of 20 years of site operation, salvage operations will be completed during the following year.

b. Life Cycle Costs

Summary life cycle costs are presented in Table 3-3. All discount and escalation rates utilized were 10%. Discount calculations were performed in accordance with AR 11-28, "Economic Analysis and Program Evaluation For Resource Management," and the escalation rate was compounded over the life of the sites.

More detailed analysis data are contained in Appendix A, pages 1-60. Pages 1-15 are the Constant 1980 Dollar Analysis sheets, pages 16-30 the Present Worth Analysis sheets, pages 31-45 the 10% Discounted/10% Escalated Dollars Analysis sheets, and pages 46-60 the the 10% Escalated Dollars Analysis sheets.

In general, the life cycle costs correlated with the construction and initial investment costs. Where two or more sites had close to the same initial investment cost, exceptions to this general rule were as follows: cut and cover site over a steel tank site due to a lower heating fuel oil cost; short pipeline sites over longer pipeline sites due to a lower spare parts maintenance cost.

3-4. CONCLUSIONS

The least costly 10 MMB storage site is the Portmouth, NH (CC) site and the least costly 20 MMB storage site is the Northville, NY (CC) site. All life cycle cost analysis methods previously described were used in making these determinations.

TABLE 3-2

EAST COAST NO. 6 FUEL OIL SITES LIFE CYCLE MISSION PROFILE*

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* Typical life cycle mission profile for costing purposes.

Site	Const. 1980 \$'s	5,\$ 086	Present Worth	Worth	Disc./Escalated \$'s	ated \$'s	Escalated \$'s	ed \$'s
	Cost	Rating	Cost	Rating	Cost	Rating	Cost	Rating
Portsmouth, NH (CC)*	190757217	1	110250301	1	182086529	1	452464195	1
Harpswell, ME (ST)**	198756055	2	116482703	2	189721688	2	468622688	2
Portsmouth, NH (ST)	222194562	3	129525547	3	212094839	3	523201890	4
Harpswell, ME (CC)	226257427	7	138114217	5	215972998	4	482229791	~
Canaveral, FL (ST)	238172623	5	134251328	4	227346173	5	598558095	2
Calverton, NY (CC)	262044067	9	152453616	9	250132973	9	615749684	မ
Portsmouth, VA (ST)	295668821	7	179227139	7	282229329	7	637421559	7
Portsmouth, VA (CC)	308964204	8	186953627	8	294920376	8	664217211	œ

20 MMB Storage								
Site	Const. 1980 \$'s	s,\$ 086	Present Worth	Worth	Disc./Escalated §'s	ated \$'s	Escalated \$'s	s,s pa
	Cost	Rating	Cost	Rating	Cost	Rating	Cost	Rating
Northville, NY (CC)	382608707	1	233186034		365217402	7	815092290	1
West Deptford IV, NJ (ST) 401259609	401259609	2	241691721	2	383020535	2	890006211	יח
West Deptford II, NJ (ST)	405675219	3	246969445	٣	387235436	3	877460635	2
Northville, NY (ST)	422253651	7	258173363	.+	403060303	7	900482833	7
Calverton, NY (CC)	434906086	5	259643204	5	415137627	5	969605411	5
Brookville, ME (M) *#5	490992394	9	297889603	7	468674557	9	1073338583	9
Porcland, ME (M)	499505762	7	297524617	9	476800954	7	1135119107	7
The second secon								

*Kote and Corer **Steel Tabk ***Yin.

APPENDIX A

LIFE CYCLE COST YEARLY ANALYSIS

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DEFINE ALTERNATE WEST UPPRESSTREE TANKS ZOMMB MENNY ALTERNATE NUM FUEL OIL DAMESTON FERHUND

ANNUAL CUST	3 7345576.00	16598370.00	\$ 67719225.00	8 67719225.00	8 67719225.00	3 92850444.00	\$ 2523565.00	2523563.00	\$ 2523563,00	\$ 2523563.00	\$ 10232664.00	\$ 2523563.00	\$ 2523565.00	\$ 2523565.00	\$ 2523565,00	3 10232664.00	8 2523563.00	\$ 2523563.00	\$ 2523563.00	2523563,00	3 102326h4,00	2523565,00	\$ 2523563.00	2523563.00	\$ 2523565.00	1.0232684.00	8 401259609.0U
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PHRIECT EAST COAST RPR HAJIN ALFELATE NURTHVILLE NV-STEEL TANKS ZOMMS HININ ALTENNATE NOG FUEL OTL INABJUSTED METHOD

ANNUAL CUST	\$454376,00	16186180,00	74335100,00	74335100.00	74333100,00	99505367.00	2276273.00	2276273.00	2276273,00	2274273,00	9924265.00	2276273,00	2276273.00	2276273,00	8276275.00	9924265.00	2276275.00	2276273,00	2276275,00	2276275.00	9924265,00	2276273,00	2276273,00	.2275273.00	2276273.00	6924265,00	422233651.00	.
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PHOJECT EAST CHAST MPH
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ANNUAL CHST	1623536,00	18165044,00	74248700.00	74248700,00	74248/10,00	9930#542.00	37.54542.01	3/34567,00	37 34567 .00	3734567,00	832755H	3734567 (11)	3734567.00	3734547.00	3754567.00	632753n .00	3734561,00	3734547.00	3734567.00	3734567,00	832135-00	8784567.00	3734561.00	3734557.00	37345+7,00	6327550.00	434905054
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PROJECT EAST COAST RPO HAJOS ALTENNATE HRUGINVILLE MF SINE COMMR HTWOM ALTERNATE VOG FUEL OIL GNABUSHSTED MFTMUD

ANNUAL CUST	S 6562876.00	00*24266602 8	8 44USAR75.00	8 86056275.00	\$ 66056275,00	8 111114455,00	3 2507083.00	8 26U7UF3.00	S 2507083.00	3 2607083,00	13104412,00	3 2601083.00	\$ 2607083.00	3 2607043.00	\$ 26070H3.00	13104412,00	S 2607083.00	8 2507043.00	8 2507003.00	\$ 2607053.00	\$ 15108412.00	8 2507085.00	S 2601043.00	\$ 2607053.00	8 26070#3.00	\$ 1310H412,00	00 101000001
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NOTES AFRIAL CISTS OISCHUNTED TH MID PT CONSTA Total ICE (1747-57 EUST + 107al Any COST) = 182086524.86

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INVESTIGAT COST (MID PT OF CONSTRUCTION) B

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HISTORY AND COST (8)

HILLING ANNIAL COST (4)#

1648261.61 1613109.77 1994420.75 2193662.65 2413749.11 2654574.02 2212034.537 3212034.537 3333738.02 3866351.62 4275218.01 5174013.79 5690315.17 6259346.68 68852H1.35 94405326.56 7573569.49 SPARF PAULS 0000 108262010.97 00 :: 000 0000 50.0 00.00 00.00 157927.38 7982410.39 67H0651.65 9656716.81 10624588.44 1737205,12 0000 101077699.61 7256736.90 2102018,19 4095238,60 4505862.6 3345321,36 5997303,25 DER STANDRY 2512220,0 2197786.2 3723853.4 DON ACCEPT TERT 3305 0000 06 0000 1070979.40 (INVEST CUST + THIRL AND CUST) # 28229329.14 PINTERNITY VA.STIE-STEEL TARKS BORNS CL.S FUEL DIL 107097 4IN PT CONST. UF CONSTRUCTION) 00.0 00000 000 00.0 00.0 0000 20103"19.17 THIT FILL 201054 AT MITTED TO THE TO THE Id OIH) VEST-SALVAGE 312501716.00 MATON ALTERNATE TRUP STAFF | FLST 222222 A - 37

327769.00 12477129.00 505168#8.86

ANNUAL COST

1824154,50 1824154,50 1824154,50 6071069,45

1828154.50 1828154.50 1628154.50 8071069.85

282229329,14

	ANELAL CUST	327768,00	13003624,27	52407435,23	\$2407435.23	\$2807435.23	65351556,63	2427391.91	2427391.91	2427591.91	6427541.91	4742530.43	2427341.91	2427391.91	7.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.	6467042645	2427341.41	2427391.91	2427341.91	2427391,91	4742630.4	8427391.9	2427341.9	2427391.9	2427341.9	4742630.4	264920376,55	
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UNIFILM ANNUAL COST (S) #

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UNIFICH AVNIAL COST (8)

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NOTE: ANNUAL COSTS DISCOUNTED TO MID PT CONST.

UNIFURM ANNUAL COST (8) m 39093879.95

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UNIFIED ATTEND COST (5)#

12 4 4 4	-	IN VF ST-SALVAGE		INIT FRALL	Ī	II-H ACCEPT TEST	U.S. STANDRY) R V	-	HAN EMMARKA		SPARF PARTS		ANNUAL CHST
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S	A	46449705.19	ø	00*3	₩.	\$ 00°0		00.0		0000	•	00.0	.	46499706.19
•	#	51149676.Al	•	19776197.96	•	1070974.49		00.00	•	0000	•	0000	ø,	71996854.25
_	₫.	00.0	•		•	s 00°0	134735	46.1		00.0	•	1266824,10	'n	2654161.04
•	•	0000	ø	00.0	v :	\$ 00°0	1526087,13	7.13	_	0000	•	1393512.01	•	2919594,14
•	,e	00.0	45	00.00	v	5 00°0	1674695.80	5.86		000	•	1552465.21	vs.	3211559,05
10	y	000	ø	0.0	€.	\$ 00.0	1846565,43	5.63	_	0000	-	1846149.55	ø,	3532734,96
11	•	00.0	ø	00.0	€.	\$ 00.0	2031221.9	1.97	.	11200137,68	•	1854764,46	J.	15086124,33
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1.5	u,	0000	•	00.0	•	# 00°0	2457778.58	95.	.	00.0	•	7244265,02	# 5	4702043.61
14	•	ດ້ວ	~	00.0	€.	\$ 00°0	2103556.44	5.44	.	000	-	2468491.55	•	5172247.97
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C		00.0	ø,	00.0	9 5	00.0	474951	5.15		00*1	w	4575457.63		\$16295c.79
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TOTAL	رزد	TOTAL LCC (INVEST COST + TOTAL	∓	DTAL ANN COSTS		466622684			•	 -	-			۱:

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INVESTMENT COST (MID PT OF CONSTRUCTION) #

MAJON ALTERNATE HANDSHELL MF BTEFL TANKS JOHNS MINNER ALTERNATE NOS FIRL UTL

INVEST	NVFSTAFNT COAT	HIU PT (IF	뿔	CHNSTRUCT100)		00*0								
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	INVEST SALVAGE		IFIT FAL	5	U-M ACCEPT TEST		FIRM STANDAY		D=# E	EMBAFIS	•	SPAHE PAHTS		ANNUAL COST	
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PAST CHAST RPH CANAVEYAL FLA. STTE-STEEL TANKS 10MMB NU. & FUEL AIL

PROJECT MAJOH ALTER-ATE MINOR ALTERNATE

	ANNUAL CUST	00.07.8804	44672806.75	49139891,77	54U538R0,94	80824540.95	4443953,68	4888349,05	3377163.96	5014902 BS	17650331,65	7157031.84	7072755.03	866000° SS	4526009	28426035,94	11526471.36	1267911# 49	13947030,34	19341733,38	45780415.15	1856 3447 38	20419847	Z461431.8	24706015.02	3729611.4	568556095,32	j.		!					<u>:</u>	;	
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	SPARE PARTS	00.0	0000	0000	00.0	0.00	2772386.67	3049625.34	3354587.87	3690046.66	4059051,33	なるののなります	4911452,10	5402597.31	20,7242457	6557142.75	7190857.03	1409942,73	6700937,00	9571030,70	1052R133.77	11540947,15	12739041.66	14012944,05	15414240,65	16955664,72	154784445.20										
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CONSTRUCTION)	INIT FILL	000	000	0.00	00.0	20010196.62	nu•q	00.0	00.0	00°0	00.0	00°0	00 ° 0.	00 0	00.0	0 · 0	00.0	00.0	00.0	00.0	00°0	00.0	C.	00.0	00.0	ου • α ·	20010198.62	re is	TEN TO HID PT	}.	TOTAL ANN COST)	. 4,	. 1				2216,8414,35
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UNIFORM ANAMAL CUST (S)#

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ANNIAL COST	1623776.00	11692434,60	\$184713H.75	57031852,62	62735037,89	90146940,44	4946468.85	5441137,73	5945251,51	6583776,66	13357205.64	7966364.75	8763066,73	9639307,40	10603238.14	21511913,26	12A2991A.1	14112909,97	15524200,97	17076621.06	34645151.42	20462711.	22726982,63	250018F0.90	27502064.99	35796362	6157496F4.35	i	·i		!	
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SPARE PAHTS	00.0	00.0	00 0	00.0	2000	00°0	3346172,34	3724789,58	4097264,51	4506995,36	06.0497690	5453464,39	5998410.45	654A691 .91	7254561,10	7984417.21	87 A 2 A 5 A 9 4	9661144.83	10627259.31	11669965.24	12854945.77	14144446.14	15559370,36	17115307.40	18826458,15	20109521.95	193943018.19					
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DOM ACCEPT TEST	00.0	00.0	00.0	00.0	000	1263275,69	000	00.0	0000	000	00.0	00.0	00.0	000	000	000	000	00.0	000	00.0	00.0	00.0	000	00.0	00.0	00.0	1283273,69		9T.	615749684.35		
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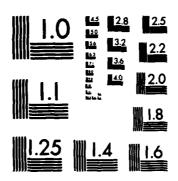
T EAST CHAST RPR ... CALVENTUN NY SITE-CONCRETE TANKS 10MMB F NGL 01L

PRESENTATE
MAJOR ALTERNATE
MINOR ALTERNATE

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HAVESTAFNI DEST (HID PT OF CONSTRUCTION) #

EAST COAST REGIONAL PETROLEUM RESERVE (RPR) VOLUME 2
POTENTIAL STORAGE SI. (U) ARMY ENGINEER DIV HUNTSYILLE
AL R E SHANNON ET AL. 30 SEP 80 HNDTR-80-45-SP-VOL-2
F/G 21/4 AD-A144 650 3/3 . UNCLASSIFIED NL ٠.



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

EAST CHAST MPR PULTSHOUTH VA.SITE-STEEL TANKS SOMHUNG FUEL HIL

PULLEGT MAJOR ALTERVATE I INVESTITATIONS (MID PT OF CONGINGTION) #

YEAN	-	Thur 91 #SALVAGE		III FILL	٦	D-M ACCEPT TEST		D-F STANDRY	=	NON EMBANGO		SPARE PANTS	-	ANNUAL COST
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UNIF 1 4 14191 COST (S) # 25406205,92

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TOTAL LCC (INVEST COST + TOTAL ANN COST) # 664217211,33

NOTE : A THUR! CHATS DISCHUNTED IN MID PT CONST.

24600637,46 UNIFORM ANNUAL COST (S)#

PAIGH ALTENATER FORMER OF CONTRACT TANKS 20HTH WILLE NY COLOMETE TANKS 20HTH WILL ALTE NO FOEL OIL

INVESTMENT COST (MID PT OF CONSTRUCTION) #

ANNUAL CUST	5452375,00	17825979.60	79959220,00	87455142,00	96750656.20	146966642,59	4777150.65	5254465.71	5740352,28	635+5+7 ,51	10353915.61	1693648.89	8463013.78	9309315,15	10240246.67	29559114,64	12390698.47	13629765,32	14992745.15	16492019,66	47605536,24	19955303,79	21950874 17	24145965.99	26560562,59	76668860.40	615092290.07	į
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NOTE: APPRIAGE COSTS DISCOUNTED TO AID PT CONST.
TOTAL LCC (FAVEST COST + TOTAL ANN.COST) # 815092290.07

INTRINE ANNIAL COST (S)# 30164605.34

A-54

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EAST CHAST RPW ... RTEEL TANKS ZOMMS NOS FUEL OIL POULTECT NAJOH ALTEN-ATE MINIU ALTENAATE

1 NVEST-8ALVAGE \$ 7175376.00														
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THIAL LCC (144537 CH87 + THIAL ANN CUST) B 877460635,68

INIFORM ANNIAL COST (S)#

32494542,06

Shifter Fast Chast RPH Halfelt Tanks Zommh Millie Alteralf Min Fiel Oil

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LCC (111 EST CUST + TOTAL AN1 CUST) = 900=6	7074, ANA CUBT) & 90086	A. COST (4) = 35351216.07 A. COST (4) = 35351216.07 E. COUNTERED, FILENINE = INPUT UGOS UFIECTER AT IT-COS AT ADDRESS		
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ENVERTHENT COME (MID DI DI CONSTRUCTION) B

NOTE! ANNUAL CUSTS DISCOUNTED TO MID PT CONST.

TUTAL LCC (INVEST COST + TOTAL ANN COBT) # 969605411.98

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UNIFORM ANNUAL COST (8) # 35911311,55

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PUDJECT EAST CHAST RPH MAJON ALTENNATE SRUGAVILLE ME MINE 20MMS MINON ALTERNATE NUO FUFL UIL

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INVESTIENT COST (ATO PT OF CRUSTAUCTION) .

ANNUAL CHST	6562876.00	23099188.20	104128092.75	114540902.02	125994992,23	178450440.92	4618506.57	5080467.22	5546515.95	6147 565.34	33499644 79	7438312.06	6162103,27	9000357.59	9900393,35	54757090.03	11979475.96	13177423,55	14495165.91	1594465.2.50	88186841.07	19293045.83	21222372.41	23344609.65	25679070.61	142025749.40	1073338583.19
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NOTE: ANNUAL CUSTS DISCOUNTED TO MID PT CONST.

TOTAL LCC (INVEST COST + TOTAL ANN COST) # 1073338583.19

UNIFORM AMUJAL COST (8) 8 39753250,86

PADJECT EAST COAST RPD FAJOR ALTERIATE PORTLAND ME, SITERMINE ZOMMB Minor Alterate No.6 Fuel oil

INVESTMENT COST (MID PT OF CONSTRUCTION) #

ANNUAL CUST	9001375,00	22691086,90	103177726.08	113495498.69	124845048.56	176261077,35	5670444.34	6257488.77	6861237.65	7547361.41	36301093.51	9132307,31	10045538.04	11050091.64	12155101,03	58463274,10	14707672,24	16178439.47	17796243,42	19575911,76	94155687.57	23686853,23	26055538,55	26661092.40	31527201.64	151638676,39	1135119107.25
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	~ 7	•	•	69	•	9 7	-	•	•	•	•	•
SPARE PARTS	0000	000	0000	000	000	000	3257115,88	3582827 47	3941110,21	4335221,23	4768743,36	5245617.69	5770179.46	6547197,41	6981917.15	7680108.86	8448119.75	9292931.72	10222224,90	11244447,39	1236882,12	13605781.34	14966359.47	16462995.42	18109294.96	19920224,46	186551310,23
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DON EMBANGO	00.0	00.0	00° 0	00.0	00°n	00 ° 0	000	0000	00.0	0000	21998995,95	00 0	0000	00.0	00 0	45092662,97	00.0	00.0	0000	0000	72622184,64	00°0	000	0000	0000	116958754,59	262672598,15
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PROMETE SEC	00.0	00.0	0000	00.0	0000	0000	2413328,46	2654661,31	2920127,44	3212140,18	3533354,20	3886689,62	4275354,58	4702894.04	5173183,88	5690502,27	6259552,50	6885507,74	7574058,52	A331464.37	9164610.81	10081071.89	11089179,08	12198096,99	13417906.68	14759697 35	138223386.29
	•	*	•	73	•	•	•	•	*	•	**	•	•	•	•	*	•	•	*	•	**	•	•	•	•	10	•
DAM ACCEPT TRUE	00.0	000	00 0	00.0	00 0	1487853,56	00°0	00 0	00.0	000	00.0	6000	000	0000	0000	00°0		0000	00.0	00.0	0000	00.0	000	00.0	00 0	00.0	1487853.36
E	#	•	•	•5	•	•	•	•	•	•	•	•	•	•	•	9 71		•	•	€,	•	•	•	•		#	•1
INIT FILL	00 0	00 0	00.0	00.0	00.0	59443670.38	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00 0	00.0	00.0	00.0	00.0	00.0	00.00	00.0	,, 0	00 0	00.0	00.0	00.0	39443670,38
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•
INVEST SALVAGE	5001375.00	22891086,90	103177726,08	113495498.69	124845048.56	137329553.41	00.0	0000	00.0	00.0	0000	00.0	00.0	UO*0	00.0	00.0	0000	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	506740288.64
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NOTE! ANNIAL COSTS DISCOUNTED TO MID PT CONST. TOTAL LCC (INVEST COST + TOTAL ANN COST) # 1135119107.25

UNIFIDEM ANNUAL COST (S)# 42041448.42

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